

Saskatchewan Wheat Pool

VARIETY TESTS

1957



SASKATCHEWAN WHEAT POOL

Variety Tests

WHEAT, BARLEY and DURUM WHEAT

1957



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Foreword

By the President of the Saskatchewan Wheat Pool

Each year since 1935, the Saskatchewan Wheat Pool has carried on a series of variety tests located throughout the grain growing area of this province. These tests have provided useful yield information to farmers and plant scientists alike.

It is difficult to measure the contribution made over the years by the young farm men and women who conducted these tests. In many cases their participation in this work has led on to a notable contribution in their home communities. Many of them have in later life given valuable service to the agricultural industry. It is the hope of the Saskatchewan Wheat Pool that the experience gained in conducting these tests has contributed in some measure to their success.

To those young people who conducted tests in 1957, I would like to express, on behalf of the Wheat Pool, our sincere appreciation for a job well done. To those whose tests were damaged by hail or other causes, I would repeat the farmer's perpetual hope that "things will be better next year." Thanks are in order also to a large number of people who assisted in an indirect way with this project. This group includes parents, elevator agents, delegates and others who encouraged and helped the test supervisors in numerous ways.

John H. Wesson

Introduction

Each year since 1935 the Saskatchewan Wheat Pool has carried on a series of variety tests throughout the grain growing area of the province. These tests are designed to provide useful information on the relative performance of different grain varieties under the different growing conditions in the province and also to stimulate interest among young farm people in growing the best varieties available.

This booklet is a report on the tests conducted in 1957. It is expected that few readers will study the whole booklet but rather that they will be particularly interested in one area of the province or in one particular crop. For this reason a detailed index is provided so the reader can readily refer to the section in which he or she is interested. An alphabetical index of test supervisors is provided at the end of the booklet to assist the reader to locate any particular test. For those interested in the province as a whole, yields are given in chart form on page 44 (for wheat), page 47 (for barley) and page 75 (for durum wheat). Yield tables for wheat are given on page 10, for barley on page 39 and for durum wheat on page 71.

The following table shows the different types of tests conducted in 1957 and the varieties included in each.

Project	No. of Tests	Varieties
Wheat.....	133	Thatcher, Selkirk, Lake, Rescue, Chinook, Stewart, Ramsey. (1)
Barley.....	148	Husky, Parkland, Traill, Vantmore, Vantage, Montcalm. (2)
Durum Wheat.....	36	Stewart, Pelissier, Ramsey, D-21, Selkirk.
Total.....	317	

(1) Only five of the seven wheat varieties were included in each test. Thatcher, Selkirk and Lake were included in tests in all areas of the province. Rescue and Chinook were used in those tests located in the south, south-west and west-central portion and they were replaced by Stewart and Ramsey in those tests located in the east, north-east and northern portion.

(2) Husky, Parkland, Traill and Vantmore were included in barley tests throughout the province. Vantage was used only in the tests in the west, south-west, and west-central areas and it was replaced by Montcalm in the east, north-east and northern part of Saskatchewan.

ORGANIZATION OF THE TESTING PROGRAM

Throughout its existence the Wheat Pool's variety testing project has been planned and carried out under the guidance of the Field Husbandry Department of the University of Saskatchewan. Valuable assistance was given during the past year by Dr. W. J. White, head of the Department and by Drs. E. N. Larter and D. R. Knott. The threshing, summarizing and statistical analysis was carried on at the Head Office of the Wheat Pool under the direction of A. D. McLeod.

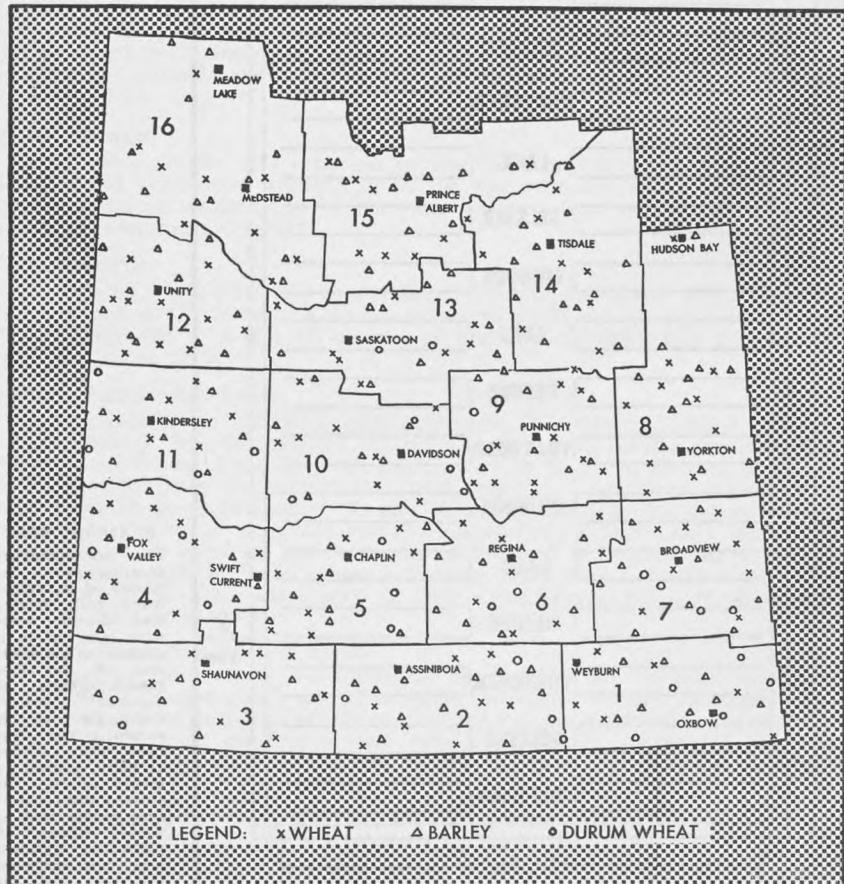
Each individual variety test was seeded and looked after by a young farm man or woman selected for the work by the Wheat Pool delegate in each subdistrict. Much of the credit for the success of this project is due to the interest and enthusiasm of these young people. In selecting supervisors an attempt is made to locate tests as uniformly as possible throughout the grain growing area of the province so that yield information can be obtained

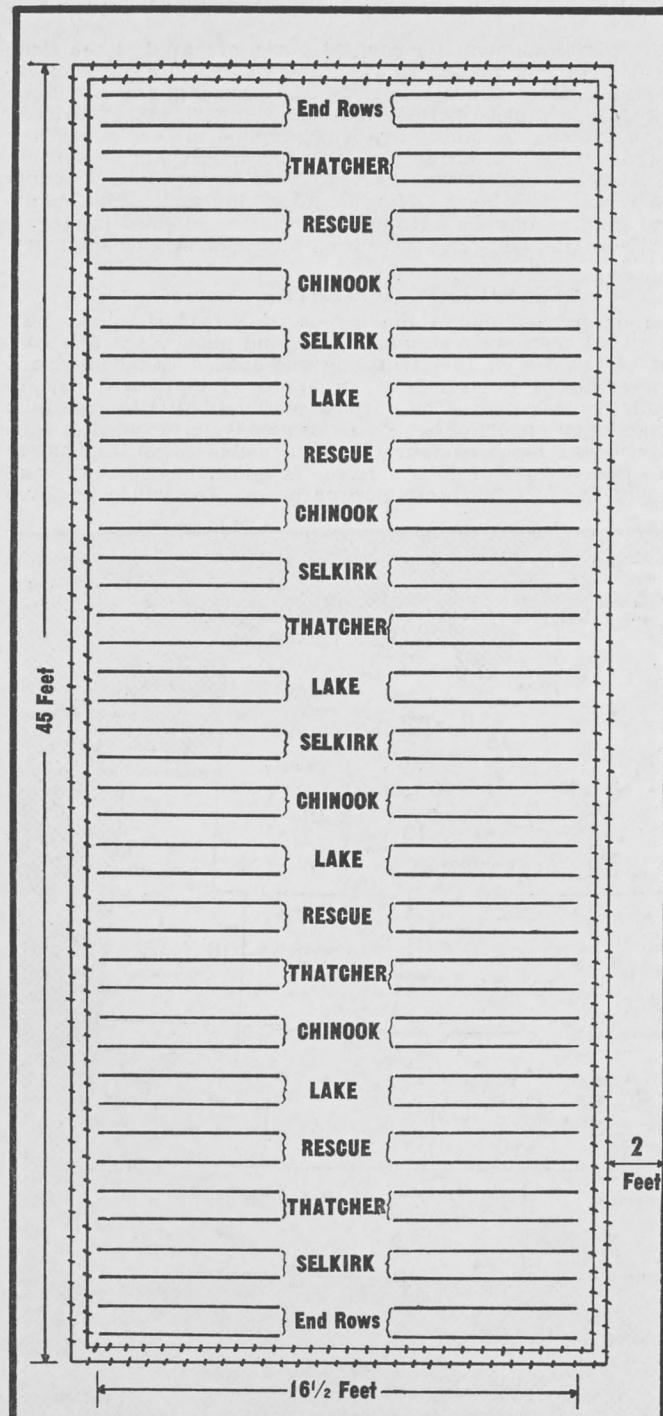
from all areas. With only a few exceptions the desired distribution was achieved.

The seed and other equipment for each test was prepared at the Head Office of the Wheat Pool and mailed to the supervisors, with instructions for seeding and looking after the test during the growing season. Each supervisor was asked to complete periodic reports comparing the varieties at different stages of growth. A rain gauge was supplied to each supervisor to record the amount of rainfall during the four-month growing season. In the fall as each variety ripened it was harvested, dried, wrapped in paper and shipped to the Wheat Pool Head Office for threshing and yield calculation. The yields and grades, together with the information supplied in reports completed by supervisors and delegates were used in preparing this summary.

DESCRIPTION OF TESTS

The diagram on page 6 shows the layout of a typical wheat test. Barley and durum wheat tests were similar in size and plan. Each test consisted of a total of 44 rows, each 16½ feet long and spaced 12 inches apart. The varieties were arranged according to an approved statistical pattern known as a randomized block plan. The purpose of this plan is to give each variety in the test an equal opportunity. Five varieties were included in each test and each variety was repeated four times in double rows (replicates) within each test, to give a total of 40 test rows. In addition, two rows were seeded at each end of the test for protection purposes. The whole test was





PLAN OF TEST

The accompanying diagram shows the layout of a typical wheat test. Barley and durum tests were laid out in a similar manner. One of the five randomizations of varietal arrangements for wheat is shown. The test rows were seeded in pairs, spaced 12 inches apart. The crossed lines represent border rows of winter wheat. A two-foot pathway was left between the test and the surrounding field.

surrounded by a double row of winter wheat. When harvesting, each pair of test rows was made into a single sheaf and the 20 sheaves were each threshed and weighed separately.

FACTS TO BE REMEMBERED IN READING AND STUDYING RESULTS

Growing conditions in Saskatchewan vary considerably from year to year and this factor has an important influence on varietal performance. Therefore, when comparing varieties it is advisable to consider their performance over a period of several years. For this reason, the section "Summarization According to Cereal Variety Zones" outlines yield results for a number of years where such results are available. In this section also frequent reference is made to the official recommendations of the Saskatchewan Advisory Council on Grain Crops. This Council meets in December of each year to consider the results of tests conducted over a period of years by the experimental farms in Saskatchewan, the University of Saskatchewan and the Saskatchewan Wheat Pool. On the basis of these tests official recommendations are made concerning the best varieties to be grown the following year. These recommendations are published in the pamphlet "Varieties of Grain Crops for Saskatchewan 1957." Copies of this pamphlet are distributed to elevator agents and are available on request from any Experimental Farm in the province, the University of Saskatchewan, the Saskatchewan Department of Agriculture or the Saskatchewan Wheat Pool.

Necessary Difference

"Necessary difference" is calculated by applying an approved statistical formula to the yield results of each individual test. The result of the calculation is shown in bushels per acre and it represents the amount by which a variety must outyield another variety in the test to be considered significantly higher in yield.

Straw Strength

Straw strength was reported on the basis of 1-9. If the plants were straight and erect, the strength of straw was recorded as 1. If the straw showed signs of weakness a higher number was used, depending upon the degree of weakness observed.

Neck Strength

This term appears only in connection with barley tests. Neck strength was recorded on the basis of 1, 2 or 3, where 1 indicated a strong neck holding the head upright, 2 indicated a neck of medium strength, and 3 indicated weakness in the neck.

Results of Individual Tests

The results of individual tests appear in the following tables: Wheat, No. 25; Barley, No. 53; Durum wheat, No. 67. These results are arranged according to Wheat Pool districts (illustrated on page 5), so that a reader who wishes to study the results in a particular area may readily locate the tests in which he is interested. It should be emphasized that the results of a single test give an accurate comparison of the varieties only under the conditions which exist on the farm where the test is located. Results may differ widely, even in tests grown relatively close together. This variation may be due to several causes such as differences in soil type, climatic conditions and date of seeding.

Summary by Cereal Variety Zones

The individual tests were grouped for analysis on the basis of cereal variety zones. These zones are illustrated on pages 44 and 45. Each zone represents an area in which conditions influencing plant growth are generally similar. While local conditions may vary considerably within the zone, in general the average yield results can be considered to represent the performance of the varieties for that zone.

Grading Remarks

In determining commercial grades, bushel weight is an important consideration. However, there are many other factors which may lower the grade of a sample. In the individual results, the column headed "Grading Remarks"

contains abbreviations used to indicate defects other than bushel weight, which appear in the sample of grain.

The following abbreviations have been used to indicate the various defects:

B1.—Bleached
B.P.—Black Point
D.—Discolored
D.G.—Dark Green
E.—Ergot
F.—Frozen
G.—Green

I.—Immature
St.—Starchy
Sp.—Spouted
W.—Weather Stained
(A)—insufficient grain to determine bushel weight.
(E)—estimated grade—no bushel weight.

RAINFALL

The amount of rainfall during the growing season has a greater influence on yields than does the annual precipitation. The following table shows average rainfall by cereal variety zones for the four months which represent the grain growing period in Saskatchewan. Rainfall is also reported on an individual test basis in the section "Individual Summarized Results of Tests."

TABLE No. 1.—AVERAGE MONTHLY RAINFALL IN INCHES
DURING THE PERIOD MAY-AUGUST
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	May	June	July	August	Total
1A.....	.66	1.79	1.60	1.12	5.17
1B.....	.10	2.28	2.33	1.60	6.31
1C.....	.50	1.88	1.38	1.47	5.23
1D.....	.30	1.61	1.83	2.02	5.76
2A.....	.86	2.48	1.77	1.69	6.80
2B.....	.46	1.59	1.91	2.24	6.20
2C.....	.15	1.96	2.09	1.46	5.66
2D.....	.36	1.69	1.60	2.62	6.27
2E.....	.61	1.27	1.44	1.34	4.66
3A.....	1.00	2.68	2.12	2.88	8.68
3B.....	.74	1.78	3.07	2.89	8.48
3C.....	.50	1.69	2.30	2.43	6.92
3D.....	.69	1.72	1.98	2.74	7.13
3E.....	.28	.99	2.10	3.38	6.75
3F.....	1.13	1.66	2.32	2.51	7.62
3G.....	.43	1.09	1.65	3.46	6.63
3H.....	.69	1.27	4.98	4.02	10.96
3J.....	.68	1.03	2.20	2.22	6.13
4A.....	.36	1.56	2.65	2.29	6.86
4B.....	.40	1.10	2.54	3.26	7.30

Note: The above table was compiled from rainfall records kept by test supervisors. Each supervisor was supplied with a rain gauge and one of his duties was to keep a record of rainfall during the growing season.



Bernard Graham of Vanscoy standing beside his wheat test.



Dale Glendenning's test at Old Wives is shown shortly before harvest.

WHEAT TESTS

A total of 133 wheat tests were included in the 1957 testing project. Five varieties were included in each individual test. Thatcher, Selkirk and Lake were included in tests throughout the province. Rescue and Chinook were used only in tests located in the west, south-west and west central areas. (This included Cereal Variety Zones 1A to 2D inclusive, with the exception of Zone 2A). They were replaced by Stewart and Ramsey in Zones 2A and 2E to 4B inclusive. For the location of these zones see the map on page 44.

DESCRIPTION OF VARIETIES

NOTE—For a report on the official recommendations and the yielding ability of the following varieties, see "Summarization According to Cereal Variety Zones" beginning on page 13.

Thatcher is included in these tests as a standard of comparison. It was developed from a cross between (Marquis X Iumillo) X (Marquis X Kanred) made in 1921 at the University of Minnesota. Thatcher is drought resistant, high yielding and high in milling and baking quality. It is resistant to shattering and to spring frost damage, but susceptible to bleaching. It is resistant to loose smut and moderately resistant to common rootrot, but susceptible to leaf rust, to stem rust and to covered smut.

Selkirk was developed at the Laboratory of Cereal Breeding, Winnipeg, from crosses involving the varieties McMurachy, Exchange and Redman. It was licensed for commercial distribution in 1953. It is equal to Thatcher in maturity, straw length and straw strength. It is less resistant to shattering, but more resistant to bleaching. Selkirk is resistant to stem rust, to loose and covered smut and moderately resistant to leaf rust.

Lake—This variety was developed at the Experimental Farm at Scott from the cross Regent X Canus and was licensed for distribution in 1954. It has medium-long, strong straw and is later in maturity than Thatcher. Lake is less resistant to shattering than is Thatcher. It is resistant to covered smut, but susceptible to loose smut, to stem and leaf rust.

Rescue was developed by the Central Experimental Farm, Ottawa and the Swift Current Experimental Farm from a cross between Apex and a solid stemmed wheat. Because of its solid straw it has considerable resistance to sawfly damage. It is slightly later in maturity than Thatcher and has slightly weaker straw. It has less tendency to bleach, but is susceptible to spring frost. Rescue is lower in milling and baking quality than Thatcher and Chinook. It is susceptible to stem and leaf rust and to loose and covered smut. It is moderately resistant to common rootrot.

Chinook—This variety was developed by the Central Experimental Farm, Ottawa, from a cross between Thatcher and a solid stemmed wheat. It is resistant to sawfly damage and is higher in milling and baking quality than is Rescue. Compared with Thatcher, Chinook has taller, weaker straw, but is equal in maturity. Chinook has high bushel weight, is susceptible to stem and leaf rust, moderately susceptible to loose and covered smut and moderately resistant to common rootrot.

Stewart is a durum variety included in these tests for comparison with the bread wheats. It was developed at the North Dakota Agricultural Experiment Station in co-operation with the United States Department of Agriculture. It was licensed in Canada in 1946. Stewart is a high quality durum variety which has long, medium strong straw and is late in maturity. It is resistant to leaf rust, but moderately susceptible to loose and covered smut, and very susceptible to stem rust.

Ramsey is a new durum variety included in these tests for comparison with the bread wheats. It was developed in North Dakota from a cross between Carleton and an unnamed variety from Palestine. Ramsey was licensed in Canada in 1957. It is equal to Stewart in maturity but has shorter, stronger straw. It is equal to Stewart in macaroni quality, and is eligible for the top

durum grades. Ramsey has some resistance to stem rust, leaf rust and covered smut, but is moderately susceptible to covered smut and susceptible to loose smut.

PERFORMANCE OF VARIETIES

The 1957 season was characterized by very light rainfall in most areas of the province. In the spring the subsoil reserve of moisture was generally light and in many areas the surface soil was quite dry. This resulted in uneven germination in some of the tests. The rainfall during May was very light throughout the whole province. In June the situation improved somewhat but in many areas the rainfall was quite uneven and considerable variation in crop condition could be seen within a short distance. In July and August moderate amounts of rain were received in most areas, which proved sufficient to assist the tests, which were located on summerfallow. However, stubble crops in many areas produced very low yields. During the summer hail damage was heavier than usual and a large number of tests were either damaged or completely destroyed.



Clarence Murray of Divide gets some help from his sister Evelyn.

TABLE No. 2.—AVERAGE YIELDS IN BUSHELS PER ACRE
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal** Variety Zone	No. of Satis- factory Tests	Thatcher	Selkirk	Lake	Rescue	Chinook	Stewart	Ramsey	Necessary Difference* in Bushels
1A.....	9	25.0	22.9	22.4	24.4	24.1	—	—	1.07
1B.....	3	30.9	29.7	30.4	30.3	31.7	—	—	2.38
1C.....	6	20.9	19.2	20.0	18.9	19.9	—	—	1.14
1D.....	7	26.0	25.8	25.1	25.3	21.8	—	—	N.S.
2A.....	4	17.7	16.8	17.6	—	—	20.0	17.2	1.51
2B.....	6	33.9	32.6	31.9	31.6	30.7	—	—	1.32
2D.....	11	21.8	21.8	23.8	22.2	20.5	—	—	.95
2E.....	2	14.9	14.5	15.4	—	—	18.3	15.1	N.S.
3A.....	2	24.5	23.5	19.9	—	—	21.0	22.4	N.S.
3B.....	4	36.5	36.8	36.4	—	—	38.8	35.3	2.23
3C.....	13	30.9	30.5	29.5	—	—	31.3	28.9	1.01
3D.....	6	31.1	29.0	28.9	—	—	28.4	25.4	1.02
3E.....	5	33.2	31.3	34.3	—	—	32.5	28.4	1.73
3F.....	3	43.0	40.0	45.7	—	—	47.5	44.6	2.42
3G.....	8	21.0	20.5	21.0	—	—	21.3	18.5	.99
4A.....	2	39.4	39.5	42.2	—	—	32.9	32.0	3.23
4B.....	4	28.7	28.1	28.4	—	—	30.7	24.5	1.95

*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone group.

N.S.—No significant grain yield difference between varieties.

**See zone map, page 44.

Table No. 2. Zones 1A to 2D (except 2A). Thatcher placed first in four of these six zones in 1957. It placed second in an additional zone and tied for third place in the remaining one. The placing of the remaining four varieties varied from zone to zone and no general statement can be made to cover their performance in the whole area. They can only be compared on an individual zone basis.

Zones 2A and 2E to 4B. Stewart placed first in seven of these zones, third in one and fourth in the remaining three zones. On an average basis Thatcher placed second, followed by Lake and Selkirk in that order. These latter two varieties varied considerably in their placing from zone to zone. Ramsey was generally lower in yield than the other varieties in this area, placing fifth in eight of the eleven zones.

TABLE No. 3.—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	Lake	Rescue	Chinook	Stewart	Ramsey
1A.....	95.0	95.0	96.8	96.2	95.8	—	—
1B.....	97.5	98.5	99.5	99.0	97.0	—	—
1C.....	92.4	93.0	95.2	94.0	93.0	—	—
1D.....	114.7	115.0	114.7	114.0	112.3	—	—
2A.....	95.3	95.3	95.5	—	—	97.8	98.0
2B.....	99.3	99.3	99.3	101.5	101.0	—	—
2D.....	98.5	98.5	99.8	99.8	98.3	—	—
2E.....	95.0	96.0	99.0	—	—	102.5	101.5
3A.....	88.0	88.0	87.5	—	—	89.0	92.0
3B.....	94.0	93.4	97.4	—	—	100.6	100.0
3C.....	98.9	97.9	100.4	—	—	103.3	103.4
3D.....	95.6	94.8	98.0	—	—	102.0	103.8
3E.....	118.0	119.5	119.0	—	—	126.0	125.5
3F.....	99.3	99.3	100.3	—	—	105.0	105.3
3G.....	102.0	100.5	103.5	—	—	105.2	105.3
3J.....	99.0	97.0	101.5	—	—	98.0	101.5
4B.....	108.5	108.0	110.5	—	—	114.0	112.3

Table No. 3. Zones 1A to 2D (except 2A). It will be noted from the above table that the four varieties Thatcher, Selkirk, Rescue and Chinook did not differ significantly in time of maturity. Lake was generally somewhat later than the other varieties tested.

Zones 2A and 2E to 4B. The three bread wheat varieties tested in this area were not significantly different in time of maturity. The two durum varieties were somewhat later and there was no appreciable difference between them. In many of the 1957 tests these durum varieties were damaged by frost and it should be noted that their late maturity would be a distinct handicap in many years in northern zones.

TABLE No. 4.—AVERAGE HEIGHT OF PLANTS IN INCHES
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	Lake	Rescue	Chinook	Stewart	Ramsey
1A.....	25.9	24.9	26.8	26.0	25.9	—	—
1B.....	31.5	32.5	34.0	32.0	32.0	—	—
1C.....	23.2	22.2	23.0	23.2	23.0	—	—
1D.....	25.1	24.9	26.7	27.0	25.1	—	—
2A.....	27.4	26.6	26.6	—	—	29.0	28.8
2B.....	26.0	25.6	28.8	27.4	27.0	—	—
2D.....	22.3	22.8	24.4	23.8	22.5	—	—
2E.....	25.5	23.5	27.0	—	—	32.5	28.5
3A.....	28.0	28.0	27.5	—	—	34.5	34.5
3B.....	27.5	27.3	31.7	—	—	37.2	34.5
3C.....	26.9	27.0	28.0	—	—	33.7	32.9
3D.....	31.8	29.8	32.3	—	—	36.7	34.7
3E.....	28.8	30.4	30.0	—	—	35.6	34.0
3F.....	31.7	29.3	35.0	—	—	41.7	38.3
3G.....	25.3	25.1	27.0	—	—	27.1	26.9
4B.....	24.6	25.8	27.2	—	—	30.2	29.6

Table No. 4. Zones 1A to 2D (except 2A). Lake was somewhat taller than the other four varieties tested in this area. Rescue, Chinook, Thatcher and Selkirk differed only slightly in height and these differences would not have any economic importance.

Zones 2A and 2E to 4B. In each of these zones Stewart was either the tallest or as tall as any other variety. Ramsey was tallest in one zone, placed

second tallest in eight others and third tallest in the remaining zone. **Lake** was the third tallest on an average basis, followed by **Thatcher** and **Selkirk** in that order.

TABLE No. 5.—AVERAGE STRAW STRENGTH OF PLANTS
ON THE BASIS 1 (Strong) to 9 (Weak)
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	Lake	Rescue	Chinook	Stewart	Ramsey
1A.....	2.6	2.2	2.4	2.3	2.3	—	—
1B.....	2.4	2.7	1.9	1.8	2.2	—	—
1C.....	1.7	1.4	1.9	2.1	1.7	—	—
1D.....	1.9	1.6	1.8	2.2	2.1	—	—
2A.....	3.8	3.9	4.0	—	—	4.4	3.4
2B.....	1.8	1.2	1.2	1.5	1.7	—	—
2D.....	1.8	1.7	1.9	1.7	1.9	—	—
2E.....	3.3	2.4	2.8	—	—	2.3	1.9
3A.....	2.0	3.0	2.0	—	—	3.0	1.0
3B.....	1.8	2.0	2.0	—	—	2.9	2.2
3C.....	3.0	3.0	3.3	—	—	3.9	3.5
3D.....	1.7	1.1	1.6	—	—	3.7	3.3
3E.....	1.3	1.6	1.3	—	—	2.4	2.9
3F.....	3.9	3.8	2.4	—	—	4.6	5.4
3G.....	2.0	1.4	1.6	—	—	2.2	1.6
3J.....	3.3	4.0	3.8	—	—	4.5	4.0
4A.....	1.8	1.7	2.1	—	—	2.2	2.5
4B.....	4.7	5.0	3.6	—	—	4.4	4.0

Table No. 5. Zones 1A to 2D (except 2A). None of the varieties tested in this area in 1957 showed any appreciable weakness of straw. On an average basis they placed in the following order: **Selkirk**, **Lake** and **Rescue**, **Chinook**, **Thatcher**.

Zones 2A and 2E to 4B. On an average basis in this area the varieties placed in the following order: **Lake**, **Thatcher**, **Selkirk**, **Ramsey**, **Stewart**. Of these five, only **Ramsey** and **Stewart** showed weakness of economic importance, in a few of the zones.

TABLE No. 6.—AVERAGE WEIGHT PER MEASURED BUSHEL
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	Lake	Rescue	Chinook	Stewart	Ramsey
1A.....	60.9	58.0	59.8	61.1	62.7	—	—
1B.....	63.2	61.2	62.2	63.8	65.2	—	—
1C.....	59.4	57.1	59.0	60.0	62.3	—	—
1D.....	62.4	61.1	62.1	62.4	63.7	—	—
2A.....	59.8	57.0	57.0	—	—	64.0	63.8
2B.....	62.3	60.7	62.2	62.7	63.7	—	—
2D.....	60.7	59.3	60.8	61.2	62.5	—	—
2E.....	64.0	63.5	64.0	—	—	66.0	65.0
3A.....	59.0	57.0	59.0	—	—	63.5	64.0
3B.....	61.0	60.0	61.3	—	—	62.8	62.0
3C.....	61.9	60.6	61.7	—	—	63.2	62.7
3D.....	62.1	61.1	61.4	—	—	63.6	62.7
3E.....	62.6	61.8	63.2	—	—	64.2	63.0
3F.....	62.3	61.0	62.8	—	—	64.5	64.0
3G.....	60.5	58.8	60.5	—	—	63.4	62.5
3J.....	61.0	61.0	61.0	—	—	61.5	60.5
4A.....	63.5	63.0	63.5	—	—	65.0	63.0
4B.....	60.8	60.2	61.0	—	—	63.0	61.4

Table No. 6. Zones 1A to 2D (except 2A). **Chinook** samples outweighed those of the other varieties in every zone in this area. **Rescue** placed second in five of the zones and tied for second place in the remaining zone. On an average basis **Thatcher** placed third. **Lake** placed fourth in all but one of these zones. **Selkirk** produced the lowest bushel weight of the five varieties tested in all six of the zones.

Zones 2A and 2E to 4B. In this area the two durum varieties outweighed the bread wheats, with **Stewart** showing slightly higher bushel weight than **Ramsey**. On an average basis **Lake** placed third, followed by **Thatcher** and **Selkirk** in that order.

TABLE No. 7—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES
(ZONES 1A to 2D, except 2A)

Variety	1 Nor. %	2 Nor. %	3 Nor. %	4 Nor. %	No. 4 Sp. %
Thatcher.....	18.7	33.3	29.2	10.4	2.1
Selkirk.....	4.2	25.0	37.5	18.7	6.2
Lake.....	10.4	22.9	37.5	14.6	2.1
Rescue.....	25.0	27.1	31.2	8.3	—
Chinook.....	37.6	33.3	14.6	8.3	—

Variety	No. 5 %	No. 5 Sp. %	No. 6 %	No. 6 Sp. %	Feed %
Thatcher.....	4.2	2.1	—	—	—
Selkirk.....	4.2	2.1	—	—	2.1
Lake.....	10.4	—	—	2.1	—
Rescue.....	4.2	—	2.1	2.1	—
Chinook.....	6.2	—	—	—	—

(Zones 2A and 2E to 4B)							
Variety	1 Nor. %	2 Nor. %	3 Nor. %	4 Nor.	No. 4 Sp.	No. 5 %	No. 6 %
Thatcher.....	1.6	9.7	43.5	37.1	—	8.1	—
Selkirk.....	—	3.2	43.6	41.9	3.2	8.1	—
Lake.....	—	6.5	38.7	33.9	1.6	17.7	1.6
Stewart.....	—	—	—	—	—	—	—
Ramsey.....	—	—	—	—	—	—	—

Variety	1 C.W. %	2 C.W. %	3 C.W. %	Ex. 4 C.W. %	4 C.W. %	5 C.W. %	6 C.W. %
Thatcher.....	—	—	—	—	—	—	—
Selkirk.....	—	—	—	—	—	—	—
Lake.....	—	—	—	—	—	—	—
Stewart.....	1.6	8.1	16.2	1.6	40.2	22.6	9.7
Ramsey.....	1.6	8.1	14.5	1.6	30.6	37.1	6.5

Table No. 7. Zones 1A to 2D (except 2A). The varieties tested in this area in 1957 all graded well with only a small percentage of the samples falling in the lower grades. As might be expected from the bushel weight tables, Chinook graded highest with 71% of the samples falling into the top two grades. **Rescue** and **Thatcher** were virtually equal with 52% of the samples in these two grades. **Lake** placed fourth with 33% included in these grades and **Selkirk** placed fifth with 29%.

Zones 2A and 2E to 4B. No direct comparison of grades can be made between the bread wheats and the durums tested in this area. The large bulk of the bread wheat samples placed in the three and four Northern grades with only a small percentage in the higher and lower grades. **Thatcher** placed first with 55% in the top three grades. **Selkirk** and **Lake** placed second and third with 47% and 45% respectively in these three grades. There was little difference in the grades of **Stewart** and **Ramsey** with only a slight margin in favor of **Stewart**.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

Throughout the grain growing area of Saskatchewan there are wide variations in soil and climatic conditions which affect the performance of varieties. With these variations in mind, Cereal Variety Zones have been drawn. Within each of these zones growing conditions are generally similar and varieties can be expected to give a similar response. These tests have been grouped according to these Cereal Variety Zones and the following tables report the average results of all those tests located within each zone. Because there are local variations within each zone which affect individual tests, the average results of all tests in the zone can be expected to be more reliable than those of an individual test.

It is a well known fact that there are tremendous variations in growing conditions in Saskatchewan from year to year, and these differences have an influence on the performance of grain varieties. For this reason reference is made in the following section, to the results over a period of years, where this information is available.

In each zone reference is made to the official recommendations of the Saskatchewan Advisory Council on Grain Crops. These recommendations are made on the basis of tests carried on over a period of years by the Experimental Farms and the University of Saskatchewan.

Table No. 8—Summarized Results for Zone 1A
(9 satisfactory tests)

	Thatcher	Selkirk	Lake	Rescue	Chinook
Yield in bushels per acre*	25.0	22.9	22.4	24.4	24.1
Days from seeding to ripening	95.0	95.0	96.8	96.2	95.8
Height of plants in inches	25.9	24.9	26.8	26.0	25.9
Straw strength (basis 1-strong to 9-weak)	2.6	2.2	2.4	2.3	2.3
Bushel weight in pounds	60.9	58.0	59.8	61.1	62.7
Commercial grades in percentage:					
1 Nor.	22.2	—	22.2	22.2	33.3
2 Nor.	33.4	33.3	11.1	33.4	33.3
3 Nor.	22.2	22.3	44.5	22.2	11.1
4 Nor.	11.1	33.3	—	11.1	22.3
No. 5	—	—	11.1	—	—
No. 5 Spec.	11.1	—	—	—	—
No. 6 Spec.	—	—	11.1	11.1	—
Feed	—	11.1	—	—	—

*Necessary difference—1.1 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1A

Thatcher placed first in yield in this zone in both 1956 and 1957. It did not yield too well in this area in 1954 and 1955 but prior to that it had a long history of good performance and is officially recommended.

Rescue placed second in yield in this zone in 1957. During the previous year it placed third. Rescue is lower in milling and baking quality than Thatcher and Chinook so it is not recommended for this zone.

Chinook yielded slightly less than Rescue in this zone during both 1956 and 1957 but because of its higher quality it is officially recommended.

Selkirk placed fourth in 1957. It was not tested by the Wheat Pool in this zone in 1956. Rust is not usually a hazard in this area and Selkirk is not recommended.

Lake was outyielded by the other four varieties tested in each of the last two years and is not recommended.

Table No. 9—Summarized Results for Zone 1B
(3 satisfactory tests)

	Thatcher	Selkirk	Lake	Rescue	Chinook
Yield in bushels per acre*	30.9	29.7	30.4	30.3	31.7
Days from seeding to ripening	97.5	98.5	99.5	99.0	97.0
Height of plants in inches	31.5	32.5	34.0	32.0	32.0
Straw strength (basis 1-strong to 9-weak)	2.4	2.7	1.9	1.8	2.2
Bushel weight in pounds	63.2	61.2	62.2	63.8	65.2
Commercial grades in percentage:					
1 Nor.	80.0	20.0	20.0	100.0	100.0
2 Nor.	20.0	60.0	60.0	—	—
3 Nor.	—	20.0	20.0	—	—

*Necessary difference—2.4 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1B

Chinook outyielded the other four varieties tested in this zone in 1957. With the exception of 1956 it has yielded well in this area for a number of years and is officially recommended.

Thatcher placed second in this zone in 1957. With the exception of 1954, when it was attacked by rust, Thatcher has placed either first or second in this zone for a number of years and is officially recommended.

Lake placed third in 1957, but placed fifth of the five varieties tested in 1956. It does not appear particularly adapted to this area and is not recommended.

Rescue placed fourth in this zone in 1957. However, it yielded well during each of the two previous years and since resistance to sawfly damage is quite important in this zone, it is officially recommended.

Selkirk was outyielded by the other varieties tested in this zone in 1957. It was not tested by the Wheat Pool in this zone in 1956, but it placed fourth in 1955. Rust resistance is not too important in this area and **Selkirk** is not recommended.

Table No. 10—Summarized Results for Zone 1C

(6 satisfactory tests)

	Thatcher	Selkirk	Lake	Rescue	Chinook
Yield in bushels per acre*	20.9	19.2	20.0	18.9	19.9
Days from seeding to ripening	92.4	93.0	95.2	94.0	93.0
Height of plants in inches	23.2	22.2	23.0	23.2	23.0
Straw strength (basis 1-strong to 9-weak)	1.7	1.4	1.9	2.1	1.7
Bushel weight in pounds	59.4	57.1	59.0	60.0	62.3
Commercial grades in percentage:					
1 Nor.	11.1	11.1	11.1	22.2	33.3
2 Nor.	44.5	11.1	22.2	33.3	55.6
3 Nor.	33.3	22.2	22.2	44.5	11.1
4 Nor.	—	11.1	33.4	—	—
No. 4 Spec.	11.1	33.4	11.1	—	—
No. 5 Spec.	—	11.1	—	—	—

*Necessary difference—1.1 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1C

Thatcher placed first of the five varieties tested in this zone in 1957. It placed first in this zone in the previous year as well and is officially recommended.

Lake was outyielded by **Thatcher** during each of the last two years. Because of this lower yield and its later maturity it is not recommended for the zone.

Chinook placed third in yield in this zone in 1957. It has yielded almost as well as **Thatcher** for a number of years and because of its sawfly resistance it is officially recommended.

Selkirk placed fourth in this zone in 1957. Rust resistance is not too important in this zone so **Selkirk** is not recommended.

Rescue placed fifth of the five varieties tested in 1957 and is not recommended.



In August, test supervisors and delegates from Pool District 3 visited the Swift Current Experimental Farm.

Table No. 11—Summarized Results for Zone 1D
(7 satisfactory tests)

	Thatcher	Selkirk	Lake	Rescue	Chinook
Yield in bushels per acre *.....	26.0	25.8	25.1	25.3	21.8
Days from seeding to ripening.....	114.7	115.0	114.7	114.0	112.3
Height of plants in inches.....	25.1	24.9	26.7	27.0	25.1
Straw strength (basis 1-strong to 9-weak).....	1.9	1.6	1.8	2.2	2.1
Bushel weight in pounds.....	62.4	61.1	62.1	62.4	63.7
Commercial grades in percentage: 1 Nor.....	—	—	—	14.3	28.6
2 Nor.....	42.9	14.3	14.3	—	28.6
3 Nor.....	28.5	57.1	42.9	57.1	28.6
4 Nor.....	14.3	14.3	28.5	14.3	—
No. 5.....	14.3	14.3	14.3	14.3	14.2

*No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1D

Thatcher outyielded the other four varieties tested in 1957 but it should be noted that in no case was the difference significant. **Thatcher** has performed well in this area for many years and is officially recommended.

Selkirk placed second in this zone in 1957. It has yielded quite well in this zone for several years but, because of its tendency to shatter, and because rust resistance is not particularly important in this area it is not recommended.

Rescue placed third in each of the past three years. It is officially recommended for sawfly control only.

Lake placed fourth in yield in both 1956 and 1957. In 1955 it placed second. In other tests it has performed quite well in this zone and it is officially recommended.

Chinook placed fifth in 1957. In several years testing it has been somewhat lower in yield than **Rescue**, but because of its higher milling and baking quality it is officially recommended.

Table No. 12—Summarized Results for Zone 2A
(4 satisfactory tests)

	Thatcher	Selkirk	Lake	Stewart	Ramsey
Yield in bushels per acre *.....	17.7	16.8	17.6	20.0	17.2
Days from seeding to ripening.....	95.3	95.3	95.5	97.8	98.0
Height of plants in inches.....	27.4	26.6	26.6	29.0	28.8
Straw strength (basis 1-strong to 9-weak).....	3.8	3.9	4.0	4.4	3.4
Bushel weight in pounds.....	59.8	57.0	57.0	64.0	63.8
Commercial grades in percentage: 2 Nor.....	60.0	20.0	40.0	—	—
3 Nor.....	40.0	20.0	40.0	—	—
4 Nor.....	—	40.0	—	—	—
No. 4 Spec.....	—	20.0	20.0	—	—
2 C.W.....	—	—	—	60.0	60.0
3 C.W.....	—	—	—	20.0	20.0
4 C.W.....	—	—	—	20.0	20.0

*Necessary difference—1.5 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2A

Stewart outyielded the other four varieties tested in this zone in both 1956 and 1957. However, since it is very susceptible to rust and since rust is a common hazard in this zone, **Stewart** is not recommended.

Thatcher placed second in this zone in each of the last two years, when no appreciable rust damage occurred. However, in years when rust occurred, the yield of this variety was severely reduced and for this reason it is not recommended for the zone.

Lake placed third in both of these years, but because of its rust susceptibility it is not recommended for the zone.

Ramsey placed fourth in yield in this zone in 1957. It performed well in this area in 1956, the first year it was tested by the Wheat Pool. This variety is resistant to stem rust and for this reason it is the only durum variety recommended for Zone 2A.

Selkirk was outyielded by the other four varieties in this zone in 1957. However, because of the rust hazard in this zone, **Selkirk**'s resistance to this disease makes it a useful variety and it is officially recommended.

Table No. 13—Summarized Results for Zone 2B
(6 satisfactory tests)

	Thatcher	Selkirk	Lake	Rescue	Chinook
Yield in bushels per acre*	33.9	32.6	31.9	31.6	30.7
Days from seeding to ripening	99.3	99.3	99.3	101.5	101.0
Height of plants in inches	26.0	25.6	28.8	27.4	27.0
Straw strength (basis 1-strong to 9-weak)	1.8	1.2	1.2	1.5	1.7
Bushel weight in pounds	62.3	60.7	62.2	62.7	63.7
Commercial grades in percentage:					
1 Nor.	33.3	—	16.7	33.3	50.0
2 Nor.	33.3	33.3	33.3	33.3	16.7
3 Nor.	16.7	33.3	16.7	16.7	16.7
4 Nor.	16.7	33.4	16.7	—	—
No. 5	—	—	16.6	16.7	16.6

*Necessary difference—1.3 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2B

Thatcher outyielded the other four varieties tested in this zone in 1957. It placed second in 1956 and except for two unusual rust years it has yielded well over a long period in this area. It is officially recommended for the zone.

Selkirk placed second in this zone in 1957. It was not tested by the Wheat Pool in this zone in 1956, but it yielded well during a number of previous years and is officially recommended.

Lake placed third in yield in this zone in 1957. It was outyielded by Thatcher in each of the last two years and is not recommended for the zone.

Rescue placed fourth in yield in 1957 and third in 1956. In both of these years it was outyielded by Thatcher and it is not recommended for the zone.

Chinook was outyielded by the other four varieties tested in each of the last two years, but is valuable in this zone because of its sawfly resistance. It was somewhat lower in yield than Rescue, but is preferable because of its higher milling and baking quality.

Cereal Variety Zone 2C

No wheat tests were located in this small zone in 1957. The recommended varieties are Rescue (for sawfly control only) and Thatcher.

Table No. 14—Summarized Results for Zone 2D
(11 satisfactory tests)

	Thatcher	Selkirk	Lake	Rescue	Chinook
Yield in bushels per acre*	21.8	21.8	23.8	22.2	20.5
Days from seeding to ripening	98.5	98.5	99.8	99.8	98.3
Height of plants in inches	22.3	22.8	24.4	23.8	22.5
Straw strength (basis 1-strong to 9-weak)	1.8	1.7	1.9	1.7	1.9
Bushel weight in pounds	60.7	59.3	60.8	61.2	62.5
Commercial grades in percentage:					
1 Nor.	—	—	—	—	16.7
2 Nor.	25.0	16.7	16.7	41.7	41.7
3 Nor.	50.0	58.3	58.3	33.3	16.7
4 Nor.	16.7	16.7	8.3	16.7	16.6
No. 5	8.3	8.3	16.7	—	8.3
No. 6	—	—	—	8.3	—

*Necessary difference—1.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2D

Lake outyielded the other four varieties tested in this zone in 1957. It placed either second or third in each of three previous years testing by the Wheat Pool. Lake is officially recommended.

Rescue placed second in yield during each of the last two years. However, because it is lower in milling and baking quality than Chinook and Thatcher, it is not recommended for the zone.

Thatcher and **Selkirk** were equal in yield in this zone in 1957, but during a number of previous years Thatcher outyielded Selkirk, and so it is recommended.

Chinook was outyielded by the other four varieties tested in this zone in 1957. However, sawfly resistance is quite important in some parts of this zone and Chinook is recommended in preference to Rescue because of its higher milling and baking quality.

Table No. 15—Summarized Results for Zone 2E
(2 satisfactory tests)

	Thatcher	Selkirk	Lake	Stewart	Ramsey
Yield in bushels per acre*	14.9	14.5	15.4	18.3	15.1
Days from seeding to ripening	95.0	96.0	99.0	102.5	101.5
Height of plants in inches	25.5	23.5	27.0	32.5	28.5
Straw strength (basis 1-strong to 9-weak)	3.3	2.4	2.8	2.3	1.9
Bushel weight in pounds	64.0	63.5	64.0	66.0	65.0
Commercial grades in percentage:					
1 Nor.	50.0	—	—	—	—
2 Nor.	—	50.0	50.0	—	—
3 Nor.	50.0	50.0	50.0	—	—
4 C.W.	—	—	—	100.0	100.0

*No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2E

The two highest yielding varieties in this zone in 1957, **Stewart** and **Lake**, are both susceptible to rust and for this reason they cannot be recommended for the zone.

Ramsey and **Selkirk**, although they placed third and fifth respectively in yield in 1957, are the only licensed varieties resistant to stem rust and the only ones which can be safely recommended for this zone.

Thatcher placed fourth in yield in 1957, but because of its rust susceptibility, it is not recommended.



Lauraline Finkbeiner is shown at the gate of their farm yard at Glen Bain.

Table No. 16—Summarized Results for Zone 3A
(2 satisfactory tests)

	Thatcher	Selkirk	Lake	Stewart	Ramsey
Yield in bushels per acre*	24.5	23.5	19.9	21.0	22.4
Days from seeding to ripening	88.0	88.0	87.5	89.0	92.0
Height of plants in inches	28.0	28.0	27.5	34.5	34.5
Straw strength (basis 1-strong to 9-weak)	2.0	3.0	2.0	3.0	1.0
Bushel weight in pounds	59.0	57.0	59.0	63.5	64.0
Commercial grades in percentage:					
3 Nor.	50.0	50.0	50.0	—	—
4 Nor.	50.0	—	50.0	—	—
No. 4 Spec.	—	50.0	—	—	—
1 C.W.	—	—	—	50.0	50.0
4 C.W.	—	—	—	50.0	50.0

*No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

Thatcher outyielded the other four varieties tested in this zone in 1957 but in several previous years it was damaged by rust and for this reason it is not recommended.

Selkirk placed second in this zone in both 1956 and 1957. Because of its resistance to rust it is valuable in this zone and is officially recommended.

Ramsey placed third in yield in this zone in 1957. It is the only licensed rust resistant durum variety available and is recommended for this zone.

Stewart placed fourth in yield in 1957. In the previous year it placed first, but because of its rust susceptibility it is not recommended for this zone.

Lake was outyielded by the other four varieties tested in 1957. It has never produced outstanding results in this zone and is not recommended.



Michael Stasuk shows the stand of durum in his test at Resource.



Alfred Nienaber, St. Gregor, marks a carefully wrapped sheaf after harvesting his test.

Table No. 17—Summarized Results for Zone 3B
(4 satisfactory tests)

	Thatcher	Selkirk	Lake	Stewart	Ramsey
Yields in bushels per acre*.....	36.5	36.8	36.4	38.8	35.3
Days from seeding to ripening.....	94.0	93.4	97.4	100.6	100.0
Height of plants in inches.....	27.5	27.3	31.7	37.2	34.5
Straw strength (basis 1-strong to 9-weak).....	1.8	2.0	2.0	2.9	2.2
Bushel weight in pounds.....	61.0	60.0	61.3	62.8	62.0
Commercial grades in percentage: 3 Nor.....	50.0	33.3	50.0	—	—
4 Nor.....	33.3	50.0	33.3	—	—
No. 5.....	16.7	16.7	16.7	—	—
3 C.W.....	—	—	—	33.3	33.3
4 C.W.....	—	—	—	66.7	16.7
5 C.W.....	—	—	—	—	33.3
6 C.W.....	—	—	—	—	16.7

*Necessary difference—2.2 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3B

Stewart outyielded the other four varieties tested in this zone in 1957. During the previous year it placed fourth of five varieties. Because of its rust susceptibility it is not recommended for this zone.

Selkirk placed second in 1957. It placed either first or second in this zone in each of the previous four years and is officially recommended.

Thatcher placed third in yield in 1957. However, during 1954 and 1955 this variety was damaged by rust and for this reason it is not recommended.

Lake placed fourth in yield in 1957. It has never produced outstanding results in this area and is not recommended.

Ramsey was outyielded by the other four varieties tested in this zone in 1957. However, it is the only licensed rust resistant durum variety available and for this reason it is officially recommended for Zone 3B.

Table No. 18—Summarized Results for Zone 3C
(13 satisfactory tests)

	Thatcher	Selkirk	Lake	Stewart	Ramsey
Yield in bushels per acre *.	30.9	30.5	29.5	31.3	28.9
Days from seeding to ripening.	98.9	97.9	100.4	103.3	103.4
Height of plants in inches.	26.9	27.0	28.0	33.7	32.9
Straw strength (basis 1-strong to 9-weak).	3.0	3.0	3.3	3.9	3.5
Bushel weight in pounds.	61.9	60.6	61.7	63.2	62.7
Commercial grades in percentage:					
3 Nor.	57.1	50.0	28.6	—	—
4 Nor.	35.7	42.9	64.3	—	—
No. 5.	7.2	7.1	7.1	—	—
3 C.W.	—	—	—	14.3	14.3
4 C.W.	—	—	—	50.0	21.4
5 C.W.	—	—	—	35.7	57.1
6 C.W.	—	—	—	—	7.2

*Necessary difference—1.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3C

Stewart and **Thatcher** placed first and second respectively in this zone in 1957. However, due to their rust susceptibility neither of these varieties is recommended for the zone.

Selkirk placed third in this zone in 1957. It placed either first or second in each of the previous four years and is officially recommended for the zone.

Lake placed fourth in yield in this zone during 1954, 1956 and 1957. It does not appear adapted to the area and is not recommended.

Ramsey was outyielded by the other four varieties tested in this zone in 1957, but because it is the only licensed rust resistant durum variety available it is officially recommended.



Maurice Wilson is shown examining the wheat in his variety test at Canuck.

Table No. 19—Summarized Results for Zone 3D
(6 satisfactory tests)

	Thatcher	Selkirk	Lake	Stewart	Ramsey
Yield in bushels per acre *.	31.1	29.0	28.9	28.4	25.4
Days from seeding to ripening.	95.6	94.8	98.0	102.0	103.8
Height of plants in inches.	31.8	29.8	32.3	36.7	34.7
Straw strength (basis 1-strong to 9-weak).	1.7	1.1	1.6	3.7	3.3
Bushel weight in pounds.	62.1	61.1	61.4	63.6	62.7
Commercial grades in percentage:					
3 Nor.	28.6	42.9	28.6	—	—
4 Nor.	71.4	28.6	14.3	—	—
No. 5.	—	28.5	57.1	—	—
4 C.W.	—	—	—	71.4	57.1
5 C.W.	—	—	—	28.6	42.9

*Necessary difference—1.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3D

Thatcher placed first in yield in this zone in both 1956 and 1957. It has yielded well in this area for a number of years and is officially recommended.

Selkirk placed second in this zone in each of the past two years. While its rust resistance is not particularly important in this area, it is recommended on the basis of its yielding ability.

Lake ranked third in yield in both 1956 and 1957. It appears to be well adapted to this area and is officially recommended.

Stewart placed fourth of the five varieties tested in 1957 and placed fifth in the previous year. Because of the frost hazard in this zone no durum varieties are recommended.

Ramsey placed fifth of the five varieties tested in 1957 and is not recommended.

Table No. 20—Summarized Results for Zone 3E
(5 satisfactory tests)

	Thatcher	Selkirk	Lake	Stewart	Ramsey
Yield in bushels per acre*	33.2	31.3	34.3	32.5	28.4
Days from seeding to ripening	118.0	119.5	119.0	126.0	125.5
Height of plants in inches	28.8	30.4	30.0	35.6	34.0
Straw strength (basis 1-strong to 9-weak)	1.3	1.6	1.3	2.4	2.9
Bushel weight in pounds	62.6	61.8	63.2	64.2	6.30
Commercial grades in percentage: 3 Nor.	20.0	20.0	20.0	—	—
4 Nor.	80.0	80.0	40.0	—	—
No. 5	—	—	40.0	—	—
3 C.W.	—	—	—	20.0	20.0
Ex. 4 C.W.	—	—	—	20.0	20.0
4 C.W.	—	—	—	20.0	—
5 C.W.	—	—	—	40.0	60.0

*Necessary difference—1.7 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3E

Lake outyielded the other four varieties tested in this zone in 1957. In spite of its late maturity it appears adapted to this area and is officially recommended.

Thatcher placed second in yield in this zone. With the exception of 1954, Thatcher has ranked either first or second in this area for a number of years and it is officially recommended.

Stewart placed third in yield in this zone in 1957 but due to its late maturity it is not recommended.

Selkirk placed fourth in yield in this zone in 1957. During several previous years it yielded quite well, but it has some tendency to shatter. It is not recommended for the zone.

Ramsey was outyielded by the other four varieties tested in this zone in 1957.

Table No. 21—Summarized Results for Zone 3F
(3 satisfactory tests)

	Thatcher	Selkirk	Lake	Stewart	Ramsey
Yield in bushels per acre*	43.0	40.0	45.7	47.5	44.6
Days from seeding to ripening	99.3	99.3	100.3	105.0	105.3
Height of plants in inches	31.7	29.3	35.0	41.7	38.3
Straw strength (basis 1-strong to 9-weak)	3.9	3.8	2.4	4.6	5.4
Bushel weight in pounds	62.3	61.0	62.8	64.5	64.0
Commercial grades in percentage: 2 Nor.	25.0	—	—	—	—
3 Nor.	50.0	75.0	75.0	—	—
4 Nor.	25.0	25.0	25.0	—	—
3 C.W.	—	—	—	25.0	25.0
4 C.W.	—	—	—	50.0	50.0
5 C.W.	—	—	—	25.0	25.0

*Necessary difference—2.4 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3F

Stewart ranked first in yield in this zone in 1957, but in the previous year it placed fifth of the five varieties tested. Because of their late maturity no durum varieties are recommended in this zone.

Lake placed second in this zone in 1957. It placed third in 1956 and fourth in 1954. Lake is rather late maturing and is not recommended for this zone.

Ramsey ranked third in yield in this zone in 1957. It had not been tested previously in this zone by the Wheat Pool. Because of its late maturity it is not recommended.

Thatcher placed fourth in this zone in 1957. With the exception of 1954, it performed well in this zone for a number of years and is officially recommended.

Selkirk, although it was outyielded by the other varieties tested in this zone in 1957, has yielded well during several recent years and is officially recommended.

Table No. 22—Summarized Results for Zone 3G
(8 satisfactory tests)

	Thatcher	Selkirk	Lake	Stewart	Ramsey
Yield in bushels per acre*	21.0	20.5	21.0	21.3	18.5
Days from seeding to ripening	102.0	100.5	103.5	105.2	105.3
Height of plants in inches	25.3	25.1	27.0	27.1	26.9
Straw strength (basis 1-strong to 9-weak)	2.0	1.4	1.6	2.2	1.6
Bushel weight in pounds	60.5	58.8	60.5	63.4	62.5
Commercial grades in percentage:					
2 Nor.	12.5	—	12.5	—	—
3 Nor.	75.0	75.0	62.5	—	—
4 Nor.	12.5	25.0	25.0	—	—
2 C.W.	—	—	—	25.0	25.0
3 C.W.	—	—	—	37.5	25.0
4 C.W.	—	—	—	12.5	25.0
5 C.W.	—	—	—	25.0	25.0

*Necessary difference—1.0 bushels.



Robert Kinash of Moosomin shows a good stand of wheat.



Philip Chamberlain of Semans conducted a wheat test in 1957.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3G

Stewart outyielded the other four varieties tested in this zone in 1957. However, it placed fourth in 1956 and because of its late maturity, it is not recommended for this zone.

Thatcher and **Lake** tied for second place in 1957. Both these varieties have performed well in this zone in previous years and both are officially recommended.

Selkirk placed fourth in yield in this zone in 1957. It placed first in 1956 and third in 1955 in this zone and is officially recommended.

Ramsey was outyielded by the other four varieties tested this year. It has not been tested previously in this area by the Wheat Pool. Due to its late maturity it is not recommended.

Cereal Variety Zone 3H

No wheat tests were located in this small zone in 1957. **Lake**, **Selkirk** and **Thatcher** are officially recommended for the zone.

Cereal Variety Zone 3J

Only one successful test was conducted in this zone during 1957. It was conducted by Lorne Hansen of Weldon and can be found in the section "Individual Summarized Results of all Tests—Wheat" on page 35. **Lake**, **Selkirk** and **Thatcher** are officially recommended for the zone.

Table No. 23—Summarized Results for Zone 4A
(2 satisfactory tests)

	Thatcher	Selkirk	Lake	Stewart	Ramsey
Yield in bushels per acre *...	39.4	39.5	42.2	32.9	32.0
Days from seeding to ripening...	100.0	102.0	103.0	113.0	119.0
Height of plants in inches...	31.0	30.0	35.0	34.0	33.0
Straw strength (basis 1-strong to 9-weak)...	1.8	1.7	2.1	2.2	2.5
Bushel weight in pounds...	63.5	63.0	63.5	65.0	63.0
Commercial grades in percentage: 4 Nor...	50.0	100.0	50.0	—	—
No. 5...	50.0	—	50.0	—	—
4 C.W...	—	—	—	100.0	—
5 C.W...	—	—	—	—	100.0

*Necessary difference—3.2 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4A

Lake outyielded the other four varieties tested in this zone in 1957. With the exception of 1954, it has produced good yields in this zone for a number of years and is officially recommended.

Selkirk placed second in yield in 1957. It ranked first in 1956 and second in two of the previous three years. **Selkirk** is officially recommended for the zone.

Thatcher placed third in this zone in 1957. It placed first or second in this zone in four of the previous five years. It is officially recommended for this zone.

Stewart and **Ramsey** were considerably lower in yield than the other three varieties tested in this zone in 1957. Because of their late maturity they would often be subject to frost damage in this area and are not recommended.

Table No. 24—Summarized Results for Zone 4B
(4 satisfactory tests)

	Thatcher	Selkirk	Lake	Stewart	Ramsey
Yield in bushels per acre *...	28.7	28.1	28.4	30.7	24.5
Days from seeding to ripening...	108.5	108.0	110.5	114.0	112.3
Height of plants in inches...	24.6	25.8	27.2	30.2	29.6
Straw strength (basis 1-strong to 9-weak)...	4.7	5.0	3.6	4.4	4.0
Bushel weight in pounds...	60.8	60.2	61.0	63.0	61.4
Commercial grades in percentage: 3 Nor...	20.0	20.0	20.0	—	—
4 Nor...	40.0	60.0	40.0	—	—
No. 5...	40.0	20.0	40.0	—	—
4 C.W...	—	—	—	40.0	40.0
5 C.W...	—	—	—	60.0	40.0
6 C.W...	—	—	—	—	20.0

*Necessary difference—2.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4B

Stewart outyielded the other four varieties tested in this zone in 1957. However, during the previous year it placed fourth. Because of its late maturity Stewart would be of doubtful value in this area and it is not recommended.

Thatcher ranked second in yield in 1957. It has performed well in this zone for a number of years and is officially recommended.

Lake placed third in this zone in 1957. It was second in the previous year and is officially recommended.

Selkirk ranked fourth in yield in 1957. It has yielded well in this area for several years and is officially recommended.

Ramsey was outyielded by the other four varieties tested in 1957. As in the case of Stewart its late maturity is a handicap in this area and it is not recommended.



Dr. R. I. H. McKenzie, Cerealist at the Indian Head Experimental Farm discusses flax diseases with a group of test supervisors from District 8.

Table No. 25

Individual Summarized Results of All Tests—Wheat

The results of all successful wheat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to Be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Grading Remarks" see page 7.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
LLOYD I. REDPATH, GAINSBOROUGH										
3A.....	1	1	Thatcher.....	18.3	85	22	—	56	4 N.	—
			Selkirk.....	16.2	86	24	—	54	4 Sp.	—
			Lake.....	15.9	86	24	—	56	4 N.	—
			Stewart.....	15.6	87	30	—	64	1 C.W.	—
			Ramsey.....	17.2	87	30	—	64	1 C.W.	—
No significant grain yield difference between varieties. Rainfall—May to August 8.07 inches.										
ALLEN JOHNSON, TRIBUNE										
2A.....	1	7	Thatcher.....	23.3	94	27	1.3	57	3 N.	—
			Selkirk.....	21.3	94	27	2.0	54	No. 4 Sp.	—
			Lake.....	20.7	95	26	2.5	55	No. 4 Sp.	—
			Stewart.....	23.3	96	26	2.8	62	2 C.W.	I.
			Ramsey.....	19.3	96	25	2.8	62	2 C.W.	I.
No significant grain yield difference between varieties. Rainfall—May to August 7.91 inches.										
HOWARD JOHNSRUDE, TALMAGE										
2A.....	1	8	Thatcher.....	—	110	21	4.0	59	2 N.	—
			Selkirk.....	—	110	21	4.5	56	4 N.	—
			Lake.....	—	110	20	3.0	47	3 N.	—
			Stewart.....	—	110	22	3.0	62	3 C.W.	Bl.
			Ramsey.....	—	110	22	1.3	62	3 C.W.	Bl.
Test damaged by hail—yields not reliable. Rainfall—May to August 7.25 inches.										
LENARD VANDERMEULEN, FORGET										
2A.....	1	9	Thatcher.....	10.9	88	23	5.0	60	2 N.	I.
			Selkirk.....	9.0	87	24	4.0	56	4 N.	—
			Lake.....	12.2	87	24	6.0	61	2 N.	I.
			Stewart.....	11.4	91	26	7.0	66	2 C.W.	I.
			Ramsey.....	8.8	92	25	3.0	65	2 C.W.	I.
Necessary difference—1.3 bushels. Rainfall record incomplete.										

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3A.....	1	2	Harvey G. Sorensen, Alida.
2A.....	1	6	Walter C. Buck, Torquay.

WHEAT POOL DISTRICT 2

				JIMMY BERES, CEYLON						
1A.....	2	2	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
1A.....	2	2	Thatcher.....	33.9	—	30	—	60	2 N.	Bl.
			Selkirk.....	31.9	—	28	—	60	2 N.	I.
			Lake.....	24.7	—	30	—	58	2 N.	—
			Rescue.....	28.1	—	30	—	61	2 N.	Bl.
			Chinook.....	27.8	—	29	—	60	2 N.	Bl.
Necessary difference—2.8 bushels. Rainfall—May to August 7.13 inches.										
1A.....	2	3	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
1A.....	2	3	Thatcher.....	17.2	—	23	—	61	3 N.	I.
			Selkirk.....	15.0	—	22	—	58	4 N.	G., I.
			Lake.....	16.0	—	22	—	61	3 N.	I.
			Rescue.....	13.6	—	23	—	62	3 N.	I.
			Chinook.....	18.3	—	23	—	64	2 N.	I.
Necessary difference—1.9 bushels. Rainfall—May to August 4.14 inches.										

Wheat Pool District 3—Continued

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
HUGH E. McDONOUGH, CRICHTON										
1C.....	3	9	Thatcher.....	32.7	96	35	1.5	61	2 N.	I.
			Selkirk.....	29.7	96	34	1.0	58	2 N.	—
			Lake.....	29.2	99	34	1.0	60	2 N.	I.
			Rescue.....	27.0	98	33	1.8	61	1 N.	—
			Chinook.....	29.4	96	34	2.3	64	1 N.	—

No significant grain yield difference between varieties. Rainfall—May to August 4.46 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

1A..... 3 10 John C. Keeler, Aneroid.

WHEAT POOL DISTRICT 4

HOWARD J. WEDRICK, CARMICHAEL										
1B.....	4	1	Thatcher.....	30.5	—	33	2.3	64	1 N.	—
			Selkirk.....	25.3	—	32	2.3	63	2 N.	I.
			Lake.....	27.7	—	34	2.0	63	2 N.	I.
			Rescue.....	31.0	—	34	2.3	64	1 N.	—
			Chinook.....	26.5	—	33	2.5	65	1 N.	—

Test damaged by animals—yields not included in zone summary. Rainfall—May to August 6.23 inches.

JACK G. THARES, GOLDEN PRAIRIE										
1B.....	4	2	Thatcher.....	23.7	101	34	2.3	63	2 N.	I.
			Selkirk.....	25.1	102	34	1.8	61	3 N.	G., I.
			Lake.....	30.4	103	35	1.5	62	3 N.	G., I.
			Rescue.....	30.1	103	34	1.8	64	1 N.	—
			Chinook.....	30.7	101	35	1.8	65	1 N.	—

No significant grain yield difference between varieties. Rainfall—May to August 6.07 inches.

MURRAY J. REIMER, LEINAN										
1A.....	4	3	Thatcher.....	24.2	97	28	1.8	61	4 N.	F.
			Selkirk.....	23.5	97	26	1.3	59	4 N.	F.
			Lake.....	24.3	96	31	1.8	60	No. 5	G., F.
			Rescue.....	24.2	98	30	2.0	61	4 N.	F.
			Chinook.....	22.7	98	30	1.8	62	4 N.	F.

No significant grain yield difference between varieties. Rainfall—May to August 4.88 inches.

BERNARD N. DOKKEN, FOSTERTON										
1B.....	4	5	Thatcher.....	25.4	—	29	3.8	63	1 N.	—
			Selkirk.....	23.2	—	32	2.5	62	1 N.	—
			Lake.....	21.9	—	35	2.0	62	1 N.	—
			Rescue.....	24.7	—	31	2.0	63	1 N.	—
			Chinook.....	25.3	—	31	2.5	65	1 N.	—

Samples incomplete—yields not included in zone summary. Rainfall—May to August 7.26 inches.

GORDON J. BEACH, GOLDEN PRAIRIE										
1B.....	4	6	Thatcher.....	32.3	121	29	2.3	62	4 N.	G., F.
			Selkirk.....	33.6	124	27	2.5	60	4 N.	G., F.
			Lake.....	36.0	121	31	3.0	59	No. 5	G., F.
			Rescue.....	33.5	119	29	2.5	62	4 N.	G., F.
			Chinook.....	28.4	121	28	2.5	63	3 N.	F.

Samples incomplete—yields not included in zone summary. Rainfall record incomplete.

JIMMY M. KERBS, LEADER										
1B.....	4	8	Thatcher.....	33.4	—	—	—	64	1 N.	—
			Selkirk.....	32.1	—	—	—	63	2 N.	I.
			Lake.....	28.0	—	—	—	64	2 N.	I.
			Rescue.....	31.2	—	—	—	65	1 N.	—
			Chinook.....	32.1	—	—	—	66	1 N.	—

Necessary difference—2.8 bushels. Rainfall record incomplete.

S. CHARLIE TUCHSCHERER, PORTREEVE										
1D.....	4	9	Thatcher.....	24.5	—	27	1.8	62	2 N.	I.
			Selkirk.....	23.2	—	26	1.0	60	3 N.	I.
			Lake.....	21.5	—	24	1.0	62	4 N.	G., I.
			Rescue.....	23.9	—	28	1.8	62	3 N.	I.
			Chinook.....	19.5	—	22	2.0	64	1 N.	—

No significant grain yield difference between varieties. Rainfall—May to August 3.70 inches.

MILTON D. BRAATEN, SHACKLETON										
1B.....	4	10	Thatcher.....	35.6	94	30	1.0	62	1 N.	—
			Selkirk.....	32.0	95	32	4.0	58	2 N.	I.
			Lake.....	32.9	96	32	2.0	60	2 N.	—
			Rescue.....	29.5	95	29	1.0	63	1 N.	—
			Chinook.....	32.4	93	29	2.0	65	1 N.	—

No significant grain yield difference between varieties. Rainfall—May to August 7.04 inches.

WHEAT POOL DISTRICT 5

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
HARRY C. NORTHCOTT, WALDECK										
1A.....	5	4	Thatcher.....	40.4	—	—	—	65	1 N.	—
			Selkirk.....	39.9	—	—	—	63	2 N.	I.
			Lake.....	42.5	—	—	—	64	1 N.	—
			Rescue.....	46.4	—	—	—	65	1 N.	—
			Chinook.....	42.7	—	—	—	66	1 N.	—

No significant grain yield difference between varieties. Rainfall—May to August 6.55 inches.

PATRICIA A. GROSS, HODGEVILLE										
1A.....	5	5	Thatcher.....	8.4	90	20	6.3	60	3 N.	Bl., I.
			Selkirk.....	6.5	90	21	6.3	56	4 N.	—
			Lake.....	5.9	94	20	6.0	60	3 N.	Bl., I.
			Rescue.....	9.8	92	20	4.8	60	3 N.	Bl., I.
			Chinook.....	9.6	90	22	4.8	61	3 N.	Bl., I.

Necessary difference—2.0 bushels. Rainfall—May to August 5.94 inches.

R. KENNETH SMITH, HALVORGATE										
1A.....	5	9	Thatcher.....	35.8	95	29	1.8	63	2 N.	I.
			Selkirk.....	29.2	96	28	1.3	61	3 N.	G., I.
			Lake.....	30.1	99	31	1.3	62	3 N.	G., I.
			Rescue.....	33.8	96	29	2.0	63	2 N.	I.
			Chinook.....	31.7	98	29	2.5	65	2 N.	I.

No significant grain yield difference between varieties. Rainfall—May to August 4.44 inches.

PETER C. UNGER, ERNFOLD										
1A.....	5	10	Thatcher.....	14.0	—	19	1.0	62	2 N.	I.
			Selkirk.....	12.1	—	19	1.3	57	3 N.	—
			Lake.....	15.1	—	20	1.0	60	3 N.	I.
			Rescue.....	13.7	—	20	1.0	63	2 N.	I.
			Chinook.....	13.6	—	18	1.0	64	1 N.	—

No significant grain yield difference between varieties. Rainfall—May to August 3.65 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

1A.....	5	2	Lauraline and Mervin Finkbeiner, Glen Bain.
2C.....	5	3	G. Stanly Wall, Neville.
2B.....	5	8	Dennis G. Reesor, Lake Valley.

WHEAT POOL DISTRICT 6

LARRY J. BRISTOL, COLFAX										
2A.....	6	1	Thatcher.....	22.0	89	33	1.3	61	3 N.	W.
			Selkirk.....	19.8	90	28	1.0	59	3 N.	W.
			Lake.....	19.9	90	30	1.0	61	3 N.	W.
			Stewart.....	26.0	94	38	1.0	66	4 C.W.	I.
			Ramsey.....	22.3	94	40	2.0	66	4 C.W.	F.

Necessary difference—2.6 bushels. Rainfall—May to August 4.13 inches.

BARRY HERTZOG, PARRY										
2A.....	6	3	Thatcher.....	14.6	—	33	7.5	62	2 N.	I.
			Selkirk.....	17.1	—	33	7.8	60	2 N.	I.
			Lake.....	17.6	—	33	7.5	61	2 N.	I.
			Stewart.....	19.4	—	33	8.0	64	2 C.W.	I.
			Ramsey.....	18.3	—	32	8.0	64	2 C.W.	I.

No significant grain yield difference between varieties. Rainfall—May to August 1.59 inches.

W. BRIAN D. WEBSTER, HEARNE										
1A.....	6	6	Thatcher.....	35.5	91	32	2.0	65	1 N.	—
			Selkirk.....	33.5	90	30	1.0	62	2 N.	I.
			Lake.....	29.6	92	34	2.0	64	1 N.	—
			Rescue.....	36.1	92	32	1.0	65	1 N.	—
			Chinook.....	33.1	91	30	1.0	66	1 N.	—

Necessary difference—2.6 bushels. Rainfall—May to August 5.43 inches.

HOWARD J. DUNCAN, REGINA										
2E.....	6	7	Thatcher.....	12.7	96	26	4.0	64	3 N.	I., F.
			Selkirk.....	14.0	98	24	3.0	64	3 N.	I., F.
			Lake.....	14.1	104	26	2.0	64	3 N.	I., F.
			Stewart.....	17.0	103	30	3.0	67	4 C.W.	F.
			Ramsey.....	12.5	101	25	2.0	66	4 C.W.	F.

Necessary difference—3.1 bushels. Rainfall—May to August 5.24 inches.

G. LESLIE BLAKLEY, SINTALUTA										
3C.....	6	8	Thatcher.....	25.3	—	28	7.8	59	3 N.	Bl., I.
			Selkirk.....	24.4	—	31	8.0	59	3 N.	Bl., I.
			Lake.....	26.1	—	31	8.0	61	3 N.	G., I.
			Stewart.....	25.8	—	29	8.5	64	4 C.W.	G., I.
			Ramsey.....	24.3	—	28	7.8	64	4 C.W.	G., I.

No significant grain yield difference between varieties. Rainfall—May to August 5.61 inches.

Wheat Pool District 6—Continued

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
KENNETH F. GIBBENS, BALCARRES										
3C.....	6	9	Thatcher.....	30.7	—	30	2.8	61	3 N.	W.
			Selkirk.....	31.1	—	36	3.5	60	3 N.	W.
			Lake.....	28.1	—	35	5.0	62	4 N.	I., W.
			Stewart.....	38.6	—	40	2.8	64	4 C.W.	W.
			Ramsey.....	33.8	—	33	2.3	65	4 C.W.	W.
Necessary difference—4.5 bushels. Rainfall record incomplete.										
MYRON HILL, TREGARVA										
2E.....	6	10	Thatcher.....	17.0	94	25	2.5	64	1 N.	—
			Selkirk.....	15.0	94	23	1.8	63	2 N.	I.
			Lake.....	16.7	94	28	3.5	64	2 N.	I.
			Stewart.....	19.5	102	35	1.5	65	4 C.W.	F.
			Ramsey.....	17.6	102	32	1.8	64	4 C.W.	F.
No significant grain yield difference between varieties. Rainfall—May to August 4.67 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
2B.....	6	10	Grace L. Simpson, Bethune.							

WHEAT POOL DISTRICT 7

ROBERT V. KINASH, MOOSOMIN										
3B.....	7	2	Thatcher.....	39.4	93	28	1.0	63	3 N.	I.
			Selkirk.....	37.9	93	25	1.0	61	4 N.	G., I.
			Lake.....	35.3	95	36	1.0	63	3 N.	I.
			Stewart.....	46.0	101	51	4.3	66	3 C.W.	G., I.B.P.
			Ramsey.....	39.9	100	44	2.3	66	3 C.W.	G., I.B.P.
Necessary difference—4.0 bushels. Rainfall—May to August 12.02 inches.										
BILL LARTER, BROADVIEW										
3A.....	7	7	Thatcher.....	30.7	91	34	2.0	62	3 N.	G., I.
			Selkirk.....	30.7	90	32	3.0	60	3 N.	G., I.
			Lake.....	23.8	89	31	2.0	62	3 N.	G., I.
			Stewart.....	26.3	91	39	3.0	63	4 C.W.	G., I.
			Ramsey.....	27.5	97	39	1.0	64	4 C.W.	G., I.
Necessary difference—3.8 bushels. Rainfall—May to August 8.42 inches.										
K. EARL KINGDON, ROCANVILLE										
3C.....	7	8	Thatcher.....	43.3	93	20	1.3	64	3 N.	G., I.
			Selkirk.....	43.5	94	16	1.0	63	3 N.	G., I.
			Lake.....	42.1	95	24	1.0	62	3 N.	G., I.
			Stewart.....	45.1	103	40	2.0	66	3 C.W.	G., I.
			Ramsey.....	38.7	102	35	1.8	66	3 C.W.	G., I.
Necessary difference—3.1 bushels. Rainfall—May to August 8.42 inches.										
C. KEITH PARK, YARBO										
3C.....	7	9	Thatcher.....	31.2	98	25	9.0	61	4 N.	G., F.
			Selkirk.....	30.9	98	28	9.0	59	4 N.	G., F.
			Lake.....	31.1	101	27	9.0	60	4 N.	G., F.
			Stewart.....	32.8	101	32	8.0	63	5 C.W.	G., F.
			Ramsey.....	30.4	103	37	8.0	63	5 C.W.	G., F.
No significant grain yield difference between varieties. Rainfall record incomplete.										

IVAR S. NELSON, DUBUC										
3C.....	7	10	Thatcher.....	25.7	—	—	—	59	4 N.	F.
			Selkirk.....	23.1	—	—	—	57	4 N.	F.
			Lake.....	20.6	—	—	—	57	4 N.	F.
			Stewart.....	16.9	—	—	—	59	5 C.W.	F.
			Ramsey.....	22.3	—	—	—	60	5 C.W.	F.
Necessary difference—3.1 bushels. Rainfall record incomplete.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3A.....	7	1	Lyle J. Birnie, Wawota.							
3A.....	7	5	Clifford S. Wood, Corning.							
3C.....	7	11	John Baer, Grayson.							

WHEAT POOL DISTRICT 8

DONNA I. BECKER, STORNOWAY										
3B.....	8	1	Thatcher.....	—	86	29	1.0	62	4 N.	F.
			Selkirk.....	—	85	30	1.8	61	4 N.	F.
			Lake.....	—	90	32	1.0	62	4 N.	F.
			Stewart.....	—	88	40	1.0	61	5 C.W.	F.
			Ramsey.....	—	86	36	1.3	61	5 C.W.	F.
Test damaged by cattle—yields not reliable. Rainfall—May to August 8.26 inches.										

Wheat Pool District 8—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
R. DONALD SILVERTHORN, SALTOATS										
3B.....	8	2	Thatcher.....	28.0	90	26	2.0	60	3 N.	I.
			Selkirk.....	20.2	89	24	2.0	58	3 N.	I.
			Lake.....	14.2	91	24	3.0	59	3 N.	I.
			Stewart.....	11.4	94	26	3.0	61	3 C.W.	I.
			Ramsey.....	7.4	94	26	3.0	58	3 C.W.	—

Test variable—yields not included in zone summary. Rainfall—May to August 6.60 inches.

KAREN M. KOWAL, WILLOWBROOK										
3C.....	8	4	Thatcher.....	38.9	90	31	1.0	62	4 N.	G., F.
			Selkirk.....	38.0	90	32	1.0	61	4 N.	G., F.
			Lake.....	41.3	90	32	2.0	63	4 N.	G., F.
			Stewart.....	40.0	97	39	6.0	65	4 C.W.	F.
			Ramsey.....	39.5	97	38	5.0	63	5 C.W.	G., F.

No significant grain yield difference between varieties. Rainfall—May to August 6.86 inches.

MARCEL BERNDT, VEREGIN										
3B.....	8	5	Thatcher.....	31.9	—	25	2.0	60	4 N.	F.
			Selkirk.....	32.5	—	25	2.0	59	4 N.	F.
			Lake.....	30.8	—	30	3.0	61	4 N.	F.
			Stewart.....	31.9	—	30	3.0	63	5 C.W.	F.
			Ramsey.....	28.0	—	28	2.0	62	5 C.W.	F.

No significant grain yield difference between varieties. Rainfall—May to August 7.66 inches.

LARRY A. SACKNEY, SHEHO										
3C.....	8	7	Thatcher.....	34.7	—	36	—	62	4 N.	F.
			Selkirk.....	34.5	—	36	—	61	4 N.	F., G.
			Lake.....	31.3	—	36	—	62	4 N.	F.
			Stewart.....	33.7	—	36	—	62	4 C.W.	F., Sp.
			Ramsey.....	32.5	—	44	—	60	5 C.W.	F., G., E.

No significant grain yield difference between varieties. Rainfall—May to August 6.47 inches.

GRANT W. G. WEEKS, HASSAN										
3B.....	8	8	Thatcher.....	51.6	99	29	1.0	63	3 N.	F.
			Selkirk.....	48.9	98	30	1.0	62	3 N.	F.
			Lake.....	54.1	98	35	1.0	63	3 N.	F.
			Stewart.....	54.5	103	38	4.3	65	5 C.W.	F.
			Ramsey.....	49.1	103	35	2.8	66	4 C.W.	F.

Necessary difference—3.6 bushels. Rainfall—May to August 7.48 inches.

ALBERT PRYSLAK, PELLY										
3B.....	8	10	Thatcher.....	22.9	102	28	4.0	58	No. 5	G., F.
			Selkirk.....	27.7	102	30	4.0	59	No. 5	G., F.
			Lake.....	25.5	113	33	3.0	60	No. 5	G., F.
			Stewart.....	22.9	117	38	2.0	61	5 C.W.	G., F.
			Ramsey.....	24.1	117	38	2.0	59	6 C.W.	G., F.

Necessary difference—2.8 bushels. Rainfall—May to August 9.47 inches.

GEORGE FEDAK, HUDSON BAY										
3F.....	8	11	Thatcher.....	33.1	107	33	2.0	63	2 N.	I.
			Selkirk.....	32.0	109	30	3.0	61	3 N.	I.
			Lake.....	36.2	109	36	2.0	63	3 N.	I.
			Stewart.....	28.2	115	45	4.0	66	3 C.W.	I.
			Ramsey.....	34.6	116	42	5.0	66	3 C.W.	I.

No significant grain yield difference between varieties. Rainfall—May to August 5.57 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3C.....	8	3	Jerry H. Litzenberger, Colmer.							
3B.....	8	6	Allan M. Zarazun, Tiny.							

WHEAT POOL DISTRICT 9

JAMES E. MURRAY, CUPAR										
3C.....	9	2	Thatcher.....	25.6	99	29	2.5	64	3 N.	I.
			Selkirk.....	26.0	99	29	1.8	63	3 N.	I.
			Lake.....	27.1	100	29	2.0	64	4 N.	G., I.
			Stewart.....	29.8	104	34	3.0	66	3 C.W.	I.,
			Ramsey.....	27.2	104	33	3.0	66	3 C.W.	I.

No significant grain yield difference between varieties. Rainfall—May to August 5.75 inches.

CARL R. HILLBOM, KELLIHER										
3C.....	9	3	Thatcher.....	28.4	—	—	—	63	No. 5	F.
			Selkirk.....	26.5	—	—	—	62	No. 5	F.
			Lake.....	23.8	—	—	—	62	No. 5	F.
			Stewart.....	22.4	—	—	—	60	5 C.W.	F.
			Ramsey.....	21.8	—	—	—	61	5 C.W.	F.

Necessary difference—4.2 bushels. Rainfall record incomplete.

Wheat Pool District 9—Continued

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
WILLIAM M. BARBER, STRASBOURG										
2B.....	9	4	Thatcher.....	30.1	—	22	2.0	64	2 N.	I.
			Selkirk.....	29.3	—	21	1.5	62	4 N.	F.
			Lake.....	30.4	—	24	1.3	63	4 N.	F.
			Rescue.....	28.1	—	24	1.8	63	3 N.	F.
			Chinook.....	27.0	—	22	2.8	65	2 N.	I.

No significant grain yield difference between varieties. Rainfall—May to August 4.51 inches.

ROBERT W. SCHNEIDER, BULYEA										
3C.....	9	4	Thatcher.....	42.1	103	29	1.0	64	3 N.	F.
			Selkirk.....	42.8	96	30	1.0	62	4 N.	F.
			Lake.....	41.6	102	31	1.0	64	4 N.	F.
			Stewart.....	41.3	108	35	2.0	65	4 C.W.	F.
			Ramsey.....	35.8	106	35	1.8	65	4 C.W.	F.

Necessary difference—4.8 bushels. Rainfall—May to August 5.65 inches.

PHILIP CHAMBERLAIN, SEMANS										
2B.....	9	7	Thatcher.....	43.0	101	26	—	62	1 N.	—
			Selkirk.....	39.6	104	26	—	59	2 N.	—
			Lake.....	40.3	101	26	—	61	2 N.	I.
			Rescue.....	36.1	101	26	—	62	2 N.	I.
			Chinook.....	40.5	101	26	—	64	1 N.	—

Necessary difference—4.2 bushels. Rainfall—May to August 5.99 inches.

WALTER LUCIU, WISHART										
3C.....	9	9	Thatcher.....	19.5	120	24	1.0	61	3 N.	W.
			Selkirk.....	16.9	120	16	1.0	60	3 N.	F.
			Lake.....	15.4	126	18	1.0	61	3 N.	F.
			Stewart.....	20.5	127	30	3.0	62	5 C.W.	F.
			Ramsey.....	16.9	127	30	2.0	59	6 C.W.	F.

Necessary difference—2.5 bushels. Rainfall—May to August 6.15 inches.

ROGER S. NUPDAL, MOZART										
3C.....	9	10	Thatcher.....	28.4	—	—	—	62	3 N.	W.
			Selkirk.....	30.7	—	—	—	61	3 N.	W.
			Lake.....	27.2	—	—	—	62	3 N.	W.
			Stewart.....	28.3	—	—	—	64	4 C.W.	F.
			Ramsey.....	27.3	—	—	—	63	5 C.W.	F.

No significant grain yield difference between varieties. Rainfall—May to August 5.91 inches.

JUNE L. and SANDRA J. PATTERSON, LESLIE										
3C.....	9	10	Thatcher.....	28.0	101	25	2.0	63	3 N.	I., F.
			Selkirk.....	28.3	100	27	1.0	62	3 N.	I., F.
			Lake.....	27.7	101	26	2.0	63	4 N.	F.
			Stewart.....	31.9	100	29	2.0	63	4 C.W.	F.
			Ramsey.....	25.4	101	26	2.0	62	5 C.W.	F.

No significant grain yield difference between varieties. Rainfall—May to August 6.26 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3C..... 9 1 Georgean Krushelniski, Ituna.

3C..... 9 2 William W. Stewart, Markinch.

WHEAT POOL DISTRICT 10

J. CARMAN SCOTT, AYLESBURY										
2B.....	10	1	Thatcher.....	37.0	.86	21	1.3	63	2 N.	I.
			Selkirk.....	34.7	.85	20	1.0	61	3 N.	—
			Lake.....	36.2	.86	26	1.3	63	2 N.	I.
			Rescue.....	34.1	.88	23	1.0	64	1 N.	—
			Chinook.....	33.2	.87	23	1.3	65	1 N.	—

No significant grain yield difference between varieties. Rainfall—May to August 5.40 inches.

W. LESLIE COUTTS, TUGASKE										
2B.....	10	2	Thatcher.....	35.1	104	32	1.0	64	1 N.	—
			Selkirk.....	35.9	103	32	1.0	62	2 N.	I.
			Lake.....	37.5	105	33	1.0	64	1 N.	—
			Rescue.....	35.9	106	32	1.0	64	1 N.	—
			Chinook.....	32.6	105	33	1.5	65	1 N.	—

Necessary difference—2.4 bushels. Rainfall record incomplete.

GORDON B. SAWYER, DINSMORE										
1D.....	10	4	Thatcher.....	31.7	112	25	1.3	61	3 N.	F.
			Selkirk.....	33.2	111	25	1.3	60	3 N.	F.
			Lake.....	29.0	111	28	1.0	62	3 N.	F.
			Rescue.....	30.8	112	28	2.0	61	3 N.	F.
			Chinook.....	27.7	110	27	1.5	63	3 N.	F.

No significant grain yield difference between varieties. Rainfall—May to August 5.41 inches.

Wheat Pool District 10—Continued

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
HUGH M. HOPKINS, BRATTON										
2D.....	10	5	Thatcher.....	26.8	100	28	2.8	61	2 N.	I.
			Selkirk.....	23.3	96	27	2.8	61	3 N.	G., I.
			Lake.....	26.1	103	29	3.0	62	3 N.	G., I.
			Rescue.....	26.1	101	28	2.8	61	2 N.	I.
			Chinook.....	28.0	98	28	2.8	64	1 N.	—

No significant grain yield difference between varieties. Rainfall—May to August 5.69 inches.

GORDON A. BUCEK, GLENDALE										
2D.....	10	6	Thatcher.....	14.9	—	—	—	59	3 N.	W.,
			Selkirk.....	12.5	—	—	—	57	3 N.	—
			Lake.....	16.3	—	—	—	59	3 N.	W.
			Rescue.....	14.8	—	—	—	60	2 N.	Bl.
			Chinook.....	13.0	—	—	—	61	2 N.	Bl.

Necessary difference—1.4 bushels. Rainfall—May to August 3.12 inches.

DARRELL R. SULZ, DAVIDSON										
2D.....	10	7	Thatcher.....	18.7	—	—	—	60	3 N.	W.
			Selkirk.....	18.9	—	—	—	59	3 N.	W.
			Lake.....	19.3	—	—	—	60	3 N.	W.
			Rescue.....	17.1	—	—	—	61	3 N.	W.
			Chinook.....	17.6	—	—	—	63	2 N.	Bl.

No significant grain yield difference between varieties. Rainfall record incomplete.

COLIN J. MUNRO, RENOWN										
2B.....	10	8	Thatcher.....	30.1	106	29	2.8	60	4 N.	F.
			Selkirk.....	28.4	105	29	1.3	60	4 N.	F.
			Lake.....	20.9	105	35	1.0	60	No. 5	G., F.
			Rescue.....	26.9	111	32	2.0	60	No. 5	G.
			Chinook.....	24.6	111	31	1.3	61	No. 5	G., F.

Necessary difference—2.7 bushels. Rainfall—May to August 7.54 inches.

EILEEN LEITCH, LAURA										
2D.....	10	10	Thatcher.....	26.1	—	—	—	59	3 N.	W.
			Selkirk.....	25.0	—	—	—	57	3 N.	—
			Lake.....	26.5	—	—	—	58	3 N.	W.
			Rescue.....	26.4	—	—	—	59	3 N.	W.
			Chinook.....	26.6	—	—	—	60	3 N.	W.

No significant grain yield difference between varieties. Rainfall—May to August 6.32 inches.

WHEAT POOL DISTRICT 11

DUANE R. MARTINSON, BICKLEIGH										
1D.....	11	2	Thatcher.....	29.4	—	26	—	64	2 N.	G.
			Selkirk.....	29.4	—	25	—	63	3 N.	G.
			Lake.....	33.8	—	29	—	64	3 N.	G.
			Rescue.....	28.0	—	31	—	63	3 N.	G.
			Chinook.....	23.4	—	27	—	64	2 N.	G.

Necessary difference—4.7 bushels. Rainfall—May to August 4.61 inches.

LAWRENCE R. WHITE, FLAXCOMBE										
1D.....	11	5	Thatcher.....	16.2	123	22	3.0	63	3 N.	I.
			Selkirk.....	15.9	125	21	2.5	61	3 N.	I.
			Lake.....	19.5	123	26	3.8	63	3 N.	I.
			Rescue.....	17.2	121	23	3.5	63	3 N.	I.
			Chinook.....	13.8	118	23	2.3	64	2 N.	I.

Necessary difference—2.6 bushels. Rainfall—May to August 6.40 inches.

DENNIS J. MOIR, BEADLE										
1D.....	11	6	Thatcher.....	24.0	109	27	2.0	63	2 N.	Bl.
			Selkirk.....	23.9	109	27	2.5	61	2 N.	I.
			Lake.....	23.0	110	29	2.0	63	2 N.	I.
			Rescue.....	22.3	109	28	2.3	64	1 N.	—
			Chinook.....	19.2	109	27	2.0	65	1 N.	—

Necessary difference—1.8 bushels. Rainfall—May to August 6.51 inches.

ARNOLD McGRATH, DODSLAND										
1D.....	11	9	Thatcher.....	34.5	—	25	1.0	63	4 N.	G., F.
			Selkirk.....	34.3	—	25	1.0	63	4 N.	G., F.
			Lake.....	33.9	—	28	1.0	62	4 N.	G., F.
			Rescue.....	34.5	—	27	2.3	64	4 N.	G., F.
			Chinook.....	29.5	—	26	3.8	65	3 N.	F.

No significant grain yield difference between varieties. Rainfall record incomplete.

Wheat Pool District 11—Continued

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seedling to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
MARVIN C. BANKS, LUSELAND										
1D.....	11	10	Thatcher.....	22.0	—	24	2.0	61	No. 5	G., F.
			Selkirk.....	20.4	—	25	1.0	60	No. 5	G., F.
			Lake.....	14.7	—	23	2.0	59	No. 5	G., F.
			Rescue.....	20.5	—	24	1.0	60	No. 5	G., F.
			Chinook.....	19.8	—	24	1.0	61	No. 5	G., F.

No significant grain yield difference between varieties. Rainfall—May to August 8.17 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

1D..... 11 7 Grant W. J. Gibbons, Rosetown.

2D..... 11 8 Ronald G. Fox, Ruthilda.

WHEAT POOL DISTRICT 12

FRED K. HYDOMAKO, BIGGAR										
2D.....	12	1	Thatcher.....	37.4	109	28	—	61	3 N.	F.
			Selkirk.....	34.9	108	27	—	60	3 N.	F.
			Lake.....	43.0	107	30	—	62	3 N.	F.
			Rescue.....	36.7	108	29	—	62	3 N.	F.
			Chinook.....	33.4	107	28	—	63	2 N.	I.

Necessary difference—2.4 bushels. Rainfall—May to August 6.89 inches.

CLARK P. WIRACHOWSKY, TRAYNOR										
2D.....	12	2	Thatcher.....	21.2	95	28	1.3	60	3 N.	W.
			Selkirk.....	21.3	100	27	1.5	58	3 N.	W.
			Lake.....	22.5	101	30	1.3	60	2 N.	Bl.
			Rescue.....	20.4	98	26	1.5	61	2 N.	Bl.
			Chinook.....	18.9	97	27	2.8	62	2 N.	Bl.

No significant grain yield difference between varieties. Rainfall—May to August 7.73 inches.

WILLIAM S. WILKINSON, HANDEL										
2D.....	12	3	Thatcher.....	25.7	88	21	1.0	63	3 N.	F.
			Selkirk.....	29.6	87	29	1.0	60	3 N.	F.
			Lake.....	25.5	85	24	1.0	63	3 N.	F.
			Rescue.....	26.6	90	25	1.0	64	3 N.	F.
			Chinook.....	22.9	92	20	1.0	65	3 N.	F.

No significant grain yield difference between varieties. Rainfall—May to August 7.90 inches.

DONALD A. HEIDT, KERROBERT										
2D.....	12	4	Thatcher.....	14.9	—	—	—	62	4 N.	F.
			Selkirk.....	18.5	—	—	—	61	4 N.	F.
			Lake.....	17.4	—	—	—	62	No. 5	F.
			Rescue.....	17.5	—	—	—	62	4 N.	F.
			Chinook.....	16.0	—	—	—	63	4 N.	F.

No significant grain yield difference between varieties. Rainfall record incomplete.

LORNE SCHMITZ, TAKO										
2D.....	12	5	Thatcher.....	2.5	—	17	1.0	58	No. 5	F.
			Selkirk.....	3.3	—	17	1.0	57	No. 5	F.
			Lake.....	6.1	—	19	1.3	59	No. 5	F.
			Rescue.....	3.8	—	18	1.3	57	No. 6	G., F.
			Chinook.....	2.9	—	16	1.0	60	No. 5	F.

Unsatisfactory germination—yields not included in zone summary. Rainfall—May to August 7.77 inches.

TERRANCE F. PARTINGTON, Evesham										
2D.....	12	6	Thatcher.....	16.1	98	19	—	61	2 N.	I.
			Selkirk.....	17.1	97	18	—	60	2 N.	I.
			Lake.....	17.9	100	19	—	61	2 N.	I.
			Rescue.....	16.7	101	21	—	62	2 N.	I.
			Chinook.....	15.5	95	21	—	64	2 N.	I.

Necessary difference—1.5 bushels. Rainfall—May to August 6.73 inches.

LIONEL R. HINCH, NEILBURG										
3E.....	12	8	Thatcher.....	36.0	112	30	2.0	61	3 N.	W.
			Selkirk.....	32.4	115	32	1.8	62	3 N.	W.
			Lake.....	36.3	113	33	1.8	63	3 N.	I.
			Stewart.....	37.3	120	36	2.3	66	3 C.W.	I.
			Ramsey.....	33.7	120	35	2.3	65	3 C.W.	I.

Necessary difference—2.4 bushels. Rainfall—May to August 7.25 inches.

WALTER O. HANTERMAN, BATTLEFORD										
3G.....	12	10	Thatcher.....	18.4	—	—	—	59	3 N.	W.
			Selkirk.....	16.6	—	—	—	57	4 N.	F.
			Lake.....	14.4	—	—	—	59	4 N.	F.
			Stewart.....	18.3	—	—	—	63	4 C.W.	F.
			Ramsey.....	15.4	—	—	—	61	4 C.W.	F.

Necessary difference—2.7 bushels. Rainfall record incomplete.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

2D..... 12 7 J. Douglas Wallace, Unity.

WHEAT POOL DISTRICT 13

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
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FRED E. EARIS JR., BAY TRAIL

3D.....	13	1	Thatcher.....	19.0	—	28	2.0	57	3 N.	—
			Selkirk.....	18.9	—	25	1.0	58	3 N.	I.
			Lake.....	19.4	—	28	2.0	59	3 N.	I.
			Stewart.....	16.6	—	31	3.8	62	4 C.W.	F.
			Ramsey.....	14.3	—	31	3.5	61	4 C.W.	F.

Necessary difference—2.4 bushels. Rainfall—May to August 9.26 inches.

C. BERNARD GRAHAM, VANSKOY

2D.....	13	6	Thatcher.....	25.7	101	27	2.5	64	2 N.	I.
			Selkirk.....	23.1	103	26	2.0	63	2 N.	I.
			Lake.....	28.7	103	29	2.5	64	3 N.	I., St.
			Rescue.....	26.6	101	29	2.8	65	2 N.	I.
			Chinook.....	23.0	101	29	1.5	65	1 N.	—

Necessary difference—2.0 bushels. Rainfall—May to August 6.53 inches.

CECIL STUSHNOFF, VANSKOY

2D.....	13	6	Thatcher.....	12.7	—	10	2.0	60	4 N.	F.
			Selkirk.....	15.9	—	11	2.0	58	4 N.	F.
			Lake.....	18.8	—	15	2.0	60	4 N.	F.
			Rescue.....	14.8	—	14	1.0	60	4 N.	F.
			Chinook.....	10.5	—	11	2.0	60	4 N.	F.

Necessary difference—2.0 bushels. Rainfall—May to August 7.11 inches.

VICTOR V. FARRELL, SONNINGDALE

3G.....	13	7	Thatcher.....	22.1	113	24	1.5	61	3 N.	I.
			Selkirk.....	21.1	113	23	1.5	60	3 N.	I.
			Lake.....	26.9	115	25	1.0	62	3 N.	I.
			Stewart.....	23.6	118	29	2.5	64	3 C.W.	I.
			Ramsey.....	21.6	118	28	1.5	63	3 C.W.	I.

Necessary difference—3.5 bushels. Rainfall—May to August 9.18 inches.

ROGER SIERMACHESKY, SMUTS

3G.....	13	8	Thatcher.....	16.5	—	20	1.0	59	3 N.	F.
			Selkirk.....	16.4	—	20	1.0	56	4 N.	—
			Lake.....	17.3	—	20	1.0	59	3 N.	F.
			Stewart.....	14.5	—	18	1.3	59	5 C.W.	F.
			Ramsey.....	15.2	—	20	1.0	58	5 C.W.	F.

No significant grain yield difference between varieties. Rainfall—May to August 6.43 inches.

JOHN R. GRAY, CARMEL

2B.....	13	10	Thatcher.....	28.0	—	—	—	61	3 N.	W.
			Selkirk.....	27.4	—	—	—	60	3 N.	W.
			Lake.....	25.8	—	—	—	62	3 N.	W.
			Rescue.....	28.7	—	—	—	63	2 N.	Bl.
			Chinook.....	26.4	—	—	—	62	3 N.	W.

No significant grain yield difference between varieties. Rainfall—May to August 4.52 inches.

WAYNE I. STEFFEN, MUENSTER

3D.....	13	11	Thatcher.....	18.6	99	33	2.0	64	4 N.	G., F.
			Selkirk.....	18.4	99	32	1.0	64	4 N.	G., F., St.
			Lake.....	17.6	102	36	1.0	64	No. 5	G., F., St.
			Stewart.....	20.5	113	39	5.0	65	4 C.W.	G., F., St.
			Ramsey.....	18.9	113	35	4.0	66	4 C.W.	G., F., St.

Necessary difference—1.7 bushels. Rainfall—May to August 8.19 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

2D.....	13	3	Donald C. Evans, Dundurn.	
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WHEAT POOL DISTRICT 14

ROY D. NOVAK, KUROKI										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	No. of bushels	Grading remarks
4A.....	14	1	Thatcher.....	36.4	100	31	1.0	64	No. 5	F.
			Selkirk.....	36.0	102	30	1.0	63	4 N.	F.
			Lake.....	40.6	103	35	1.8	64	No. 5	F.
			Stewart.....	35.7	113	34	2.3	65	4 C.W.	F.
			Ramsey.....	34.1	119	33	3.0	62	5 C.W.	F.

No significant grain yield difference between varieties. Rainfall—May to August 6.25 inches.

GARRY D. and DENNIS W. OTT, WADENA

3C.....	14	2	Thatcher.....	—	87	19	2.0	62	4 N.	F.
			Selkirk.....	—	86	16	2.3	59	4 N.	F.
			Lake.....	—	88	19	2.0	61	4 N.	F.
			Stewart.....	—	86	27	1.3	62	5 C.W.	F.
			Ramsey.....	—	87	23	1.3	61	5 C.W.	F.

Test damaged by birds—yields not reliable. Rainfall—May to August 5.51 inches.

Wheat Pool District 14—Continued

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
KENNETH W. KENASCHUK, DAPHNE										
3D.....	14	3	Thatcher..... Selkirk..... Lake..... Stewart..... Ramsey.....	41.3 39.2 33.4 33.8 31.6	98 98 104 104 104	33 30 34 36 34	1.0 1.0 1.0 5.0 4.0	63 62 62 63 62	4 N. No. 5 No. 5 5 C.W. 5 C.W.	F. G., F. G., F. G., F. G., F.
Necessary difference—3.2 bushels. Rainfall—May to August 6.61 inches.										
ROGER COTE, PERIGORD										
3D.....	14	5	Thatcher..... Selkirk..... Lake..... Stewart..... Ramsey.....	33.7 29.8 33.2 29.6 24.6	95 95 95 95 104	30 28 30 42 42	1.0 1.0 1.0 2.0 2.0	63 62 62 63 61	4 N. 3 N. No. 5 5 C.W. 5 C.W.	F. F. G., F. F. F.
Necessary difference—3.2 bushels. Rainfall—May to August 6.33 inches.										
TERRANCE M. CHYSYK, CHELAN										
4A.....	14	6	Thatcher..... Selkirk..... Lake..... Stewart..... Ramsey.....	42.3 43.0 43.7 30.0 29.8	— — — — —	— 2.3 2.3 2.0 2.0	2.5 2.3 2.3 2.0 2.0	63 63 63 65 64	4 N. 4 N. 4 N. 4 C.W. 5 C.W.	F. F. F., St. F. F.
Necessary difference—4.9 bushels. Rainfall—May to August 3.57 inches.										
ROBERT C. JACKSON, SYLVANIA										
3F.....	14	7	Thatcher..... Selkirk..... Lake..... Stewart..... Ramsey.....	57.1 54.2 62.2 71.0 61.7	108 108 110 114 114	36 36 36 40 40	2.0 2.0 3.0 4.0 4.0	62 62 63 63 61	3 N. 3 N. 3 N. 4 C.W. 4 C.W.	I., W. I., W. G., I. F. F.
Necessary difference—3.9 bushels. Rainfall record incomplete.										
ROBERT J. PATERSON, ETHELTON										
3D.....	14	8	Thatcher..... Selkirk..... Lake..... Stewart..... Ramsey.....	47.2 43.0 44.3 45.6 42.1	98 97 101 107 107	34 34 34 38 34	2.0 1.5 2.5 3.3 3.0	64 63 62 64 62	3 N. 3 N. 3 N. 4 C.W. 4 C.W.	I. I. I. F. F.
Necessary difference—3.0 bushels. Rainfall—May to August 7.30 inches.										
LORNE G. HANSEN, WELDON										
3J.....	14	9	Thatcher..... Selkirk..... Lake..... Stewart..... Ramsey.....	17.6 17.0 19.8 21.7 17.3	109 107 111 112 112	— — — — —	4.5 7.0 6.0 7.0 6.0	61 61 63 61 61	3 N. 3 N. 3 N. 4 C.W. 4 C.W.	I. I. I. G., I. G., I.
Necessary difference—2.1 bushels. Rainfall record incomplete.										
VERNON W. SCAMMELL, RIDGEDALE										
3F.....	14	10	Thatcher..... Selkirk..... Lake..... Stewart..... Ramsey.....	7.3 7.9 8.8 8.8 6.8	— — — — —	— 5.3 2.5 3.3 5.5	7.5 5.3 2.5 3.3 5.5	62 60 62 64 64	4 N. 4 N. 4 N. 5 C.W. 5 C.W.	F. F. F., St. F. F.
Test damaged—Yields not included in zone summary. Rainfall record incomplete.										
ROBERT A. PERKINS, CODETTE										
3F.....	14	11	Thatcher..... Selkirk..... Lake..... Stewart..... Ramsey.....	38.7 33.9 38.7 43.4 37.4	83 81 82 86 86	26 22 33 40 33	4.0 5.0 2.0 7.0 7.0	62 61 63 65 65	3 N. 3 N. 3 N. 4 C.W. 4 C.W.	F. F. F. F. F.
Necessary difference—2.8 bushels. Rainfall—May to August 9.70 inches.										

WHEAT POOL DISTRICT 15

LYLE A. THINGELSTAD, BIRCH HILLS										
3D.....	15	1	Thatcher..... Selkirk..... Lake..... Stewart..... Ramsey.....	— — — — —	— — — — —	— — — — —	— — — — —	62 60 61 64 64	4 N. 4 N. 4 N. 4 C.W. 5 C.W.	G., F. G., F. G., F. F. F.
Test damaged—yields not reliable. Rainfall—May to August 5.78 inches.										
LEONARD BOUTIN, DOMREMY										
3D.....	15	2	Thatcher..... Selkirk..... Lake..... Stewart..... Ramsey.....	26.6 24.5 25.2 24.4 20.8	88 85 88 91 91	33 30 32 34 32	2.0 1.0 2.0 3.0 3.0	62 59 60 64 63	4 N. No. 5 No. 5 4 C.W. 4 C.W.	F. G., F. G., F. G., I. G., I.
Necessary difference—2.5 bushels. Rainfall—May to August 3.66 inches.										

Wheat Pool District 15—Continued

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
OMER R. COMO, DUCK LAKE										
3G.....	15	3	Thatcher.....	28.2	91	19	2.0	63	3 N.	I.
			Selkirk.....	28.3	92	19	1.0	61	3 N.	I.
			Lake.....	30.7	99	25	1.0	62	3 N.	I.
			Stewart.....	25.8	96	23	2.0	64	3 C.W.	I.
			Ramsey.....	22.0	96	23	1.0	64	3 C.W.	I.

Necessary difference—2.4 bushels. Rainfall—May to August 5.52 inches.

LEONARD H. REGIER, LAIRD										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
3G.....	15	4	Thatcher.....	32.4	97	29	1.8	60	3 N.	Bl.
			Selkirk.....	30.3	97	28	1.0	59	3 N.	Bl.
			Lake.....	27.8	98	31	2.0	60	3 N.	Bl.
			Stewart.....	35.8	100	27	2.8	65	2 C.W.	Bl.
			Ramsey.....	27.9	99	26	2.3	64	2 C.W.	Bl.

Necessary difference—4.3 bushels. Rainfall—May to August 4.97 inches.

HAROLD H. CHRISTENSEN, CANWOOD										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
4B.....	15	6	Thatcher.....	31.7	104	26	9.0	62	4 N.	F.
			Selkirk.....	32.2	103	28	9.0	62	4 N.	F.
			Lake.....	33.1	107	30	4.0	62	4 N.	F.
			Stewart.....	33.7	110	32	7.0	65	4 C.W.	F.
			Ramsey.....	28.4	109	31	7.0	64	4 C.W.	F.

No significant grain yield difference between varieties. Rainfall—May to August 6.44 inches.

IDA H. SOMMERFELD, SHELLBROOK										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
3J.....	15	8	Thatcher.....	—	89	28	2.0	61	4 N.	F.
			Selkirk.....	—	87	27	1.0	61	4 N.	F.
			Lake.....	—	92	20	1.5	59	No. 6	G., F.
			Stewart.....	—	84	26	2.0	62	5 C.W.	G., F.
			Ramsey.....	—	91	26	2.0	60	6 C.W.	G., F.

Samples bulked—yields not reliable. Rainfall record incomplete.

BRUCE N. LARSON, GARRICK										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
4B.....	15	11	Thatcher.....	20.6	114	27	3.0	59	3 N.	W.
			Selkirk.....	19.5	111	26	3.8	58	3 N.	W.
			Lake.....	20.6	116	31	3.5	60	3 N.	W.
			Stewart.....	26.1	124	32	2.0	65	4 C.W.	F.
			Ramsey.....	20.4	119	34	1.0	64	4 C.W.	F.

Necessary difference—4.3 bushels. Rainfall—May to August 8.29 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
4B.....	15	7	Marcel Dore, Pascal.	—	—	—	—	—	—	—

WHEAT POOL DISTRICT 16

EARL E. NUTBROWN, MAYMONT										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
3G.....	16	1	Thatcher.....	15.6	100	24	2.3	59	2 N.	—
			Selkirk.....	16.4	98	25	1.8	57	3 N.	—
			Lake.....	15.3	101	24	1.3	59	2 N.	—
			Stewart.....	16.3	104	26	2.0	64	2 C.W.	I.
			Ramsey.....	12.4	103	25	1.8	64	2 C.W.	I.

No significant grain yield difference between varieties. Rainfall—May to August 5.52 inches.

WALTER KALYN, HAFFORD										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
3G.....	16	2	Thatcher.....	20.6	111	31	1.8	63	4 N.	G., F.
			Selkirk.....	20.6	103	31	1.0	62	3 N.	F.
			Lake.....	20.1	109	33	1.5	63	4 N.	G., F.
			Stewart.....	21.5	114	37	1.5	64	5 C.W.	G., F.
			Ramsey.....	22.6	116	36	1.3	63	5 C.W.	G., F.

No significant grain yield difference between varieties. Rainfall—May to August 6.21 inches.

NORMAN J. WOYTOWICH, WHITKOW										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
3G.....	16	3	Thatcher.....	13.9	100	30	3.3	60	3 N.	I.
			Selkirk.....	14.1	100	30	2.5	58	3 N.	I.
			Lake.....	15.5	99	31	3.5	60	3 N.	I.
			Stewart.....	14.5	99	30	3.0	64	3 C.W.	I.
			Ramsey.....	10.8	100	30	2.5	63	4 C.W.	F.

No significant grain yield difference between varieties. Rainfall—May to August 9.03 inches.

S. BARRY BRAUN, BRESAYLOR										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
3E.....	16	5	Thatcher.....	32.6	—	29	1.0	63	4 N.	G., F.
			Selkirk.....	35.8	—	28	2.0	62	4 N.	G., F.
			Lake.....	38.8	—	30	1.0	64	No. 5	G., F.
			Stewart.....	28.8	—	37	3.0	65	5 C.W.	G., F.
			Ramsey.....	31.4	—	36	4.0	65	5 C.W.	G., F.

Necessary difference—4.7 bushels. Rainfall—May to August 6.62 inches.

Wheat Pool District 16—Continued

Cereal Variety Zone	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
R. PETER BIDLICK, LLOYDMINSTER									
3E.....	16	6 Thatcher.....	55.9	—	34	—	64	4 N.	I., F.
		Selkirk.....	49.5	—	42	—	63	4 N.	I., F.
		Lake.....	52.4	—	34	—	64	4 N.	I., F.
		Stewart.....	60.0	—	42	—	65	Ex. 4 C.W.	I., F.
		Ramsey.....	49.7	—	42	—	65	Ex. 4 C.W.	I., F.
No significant grain yield difference between varieties. Rainfall—May to August 3.61 inches.									
ERNEST F. HANNIS, FRENCHMAN BUTTE									
4B.....	16	7 Thatcher.....	28.6	—	27	1.5	63	4 N.	G., F.
		Selkirk.....	28.8	—	30	2.0	62	4 N.	G., F.
		Lake.....	31.5	—	31	1.8	62	4 N.	G., F.
		Stewart.....	30.0	—	36	3.0	62	5 C.W.	G., F.
		Ramsey.....	26.6	—	35	2.0	62	5 C.W.	G., F.
No significant grain yield difference between varieties. Rainfall—May to August 10.69 inches.									
CARL A. LUNDBERG, WEST HAZEL									
3E.....	16	8 Thatcher.....	21.7	—	26	1.0	62	4 N.	F.
		Selkirk.....	20.0	—	25	1.0	61	4 N.	F.
		Lake.....	22.9	—	27	1.0	63	4 N.	F.
		Stewart.....	19.5	—	33	2.0	63	4 C.W.	F.
		Ramsey.....	12.9	—	28	2.3	60	5 C.W.	F.
Necessary difference—3.4 bushels. Rainfall record incomplete.									
DENNIS SCHICK, GLASLYN									
3E.....	16	9 Thatcher.....	20.0	124	25	—	63	4 N.	G., F.
		Selkirk.....	18.6	124	25	—	61	4 N.	G., F.
		Lake.....	20.9	125	26	—	62	No. 5	G., F.
		Stewart.....	16.7	132	30	—	62	5 C.W.	G., F.
		Ramsey.....	14.5	131	29	—	60	5 C.W.	G., F.
Necessary difference—3.2 bushels. Rainfall—May to August 7.80 inches.									
MARVIN AMENDT, BELBUTTE									
4B.....	16	9 Thatcher.....	33.7	112	28	2.0	60	No. 5	F.
		Selkirk.....	31.8	112	28	2.0	60	4 N.	F.
		Lake.....	28.5	112	29	2.0	62	No. 5	F.
		Stewart.....	33.1	112	31	2.0	61	5 C.W.	F., Sp.
		Ramsey.....	22.6	112	28	2.0	58	6 C.W.	F., Sp.
Necessary difference—5.0 bushels. Rainfall—May to August 6.10 inches.									
ERIC W. GREEN, RAPID VIEW									
4B.....	16	11 Thatcher.....	27.1	104	15	8.0	60	No. 5	F.
		Selkirk.....	27.9	106	17	8.3	59	No. 5	F.
		Lake.....	24.2	107	15	6.8	59	No. 5	F.
		Stewart.....	29.0	110	20	8.0	62	5 C.W.	F.
		Ramsey.....	26.8	109	20	7.8	59	5 C.W.	F.
Test damaged—yields not included in zone summary. Rainfall record incomplete.									

Test damaged and yields not included in zone summary to result omitted

BARLEY TESTS

A total of 148 barley tests were conducted in 1957. Each of these tests included five varieties. Husky, Parkland, Traill and Vantmore were included in all tests. Vantage was included in those tests located in the west, southwest and west-central area of the province. This area included Cereal Variety Zones 1A to 2D, except for Zone 2A. In the remainder of the province Vantage was replaced by Montcalm. This area included Zones 2A and 2E to 4B inclusive. The location of these zones is shown on the map on page 45.

DESCRIPTION OF VARIETIES

NOTE—For a report on yielding ability of these varieties and the official recommendation see "Summarization According to Cereal Variety Zones" beginning on page 43.

Husky is a high yielding, six-rowed, smooth-awned feed variety developed at the University of Saskatchewan and licensed for distribution in 1953. It is late maturing and has strong, medium-long straw. Husky has some tendency to shatter. It is resistant to most races of stem rust, but is susceptible to loose and covered smut.

Parkland is a malting variety developed at the Experimental Farm, Brandon, from a cross involving the varieties Montcalm, Olli, Newal and Peatland. It is a six-rowed, smooth-awned variety with medium-long, medium-strong straw. Parkland is resistant to stem rust, but susceptible to loose and covered smut.

Traill is a six-rowed, rough-awned feed variety developed at the North Dakota Agricultural Experiment Station from a cross between Kindred and Titan. It has mid-long, mid-strong straw and the heads are semi-nodding. Traill is resistant to stem rust, moderately susceptible to loose and covered smut and susceptible to speckled leaf blotch.

Vantmore is a six-rowed, smooth-awned feed variety developed at the Experimental Farm at Brandon from the cross Titan X Vantage. It was licensed for commercial distribution in 1954. Vantmore is equal to Vantage in straw length and strength, but is more resistant to certain leaf diseases. Vantmore is resistant to stem rust, moderately resistant to loose and covered smut, but susceptible to leaf rust.

Vantage is a six-rowed, smooth-awned, medium-late feed variety developed at the Experimental Farm, Brandon from the cross (Newal X Peat-



Barbara Stuart of Climax seems to enjoy looking after her barley test.

land) **X** Plush. **Vantage** has strong straw. It is resistant to stem rust, but susceptible to loose and covered smut, leaf rust and leaf blotch.

Montcalm is a six-rowed, smooth-awned malting variety developed at Macdonald College and licensed for distribution in 1945. It has tall, moderately strong straw and is fairly late maturing. It has some resistance to covered smut but is susceptible to loose smut and to stem and leaf rust.

**Table No. 26—Average Yields in Bushels Per Acre
Summarized by Cereal Variety Zones**

Cereal** Variety Zone	No. of Satisfactory Tests	Husky	Parkland	Traill	Vantmore	Vantage	Montcalm	Necessary Difference* in bushels
1A.....	10	53.1	48.7	49.0	48.9	52.0	—	1.96
1B.....	5	39.3	37.5	33.9	34.0	33.8	—	3.00
1C.....	6	26.2	22.8	24.7	26.5	27.6	—	1.92
1D.....	5	53.6	38.6	46.1	46.8	51.3	—	3.88
2A.....	7	46.6	37.6	39.0	38.1	—	36.1	2.55
2B.....	7	53.0	46.2	48.1	45.0	48.9	—	2.25
2C.....	2	43.4	34.5	30.3	39.5	37.5	—	3.46
2D.....	14	37.1	30.5	28.3	27.9	30.7	—	1.45
2E.....	2	34.0	29.4	32.7	28.9	—	25.2	N.S.
3A.....	3	43.8	41.6	38.2	33.6	—	36.8	3.43
3B.....	6	65.6	52.8	54.2	50.7	—	50.1	2.00
3C.....	7	54.2	43.5	44.3	39.7	—	41.9	N.S.
3D.....	8	62.5	53.5	54.2	48.2	—	49.7	1.86
3E.....	4	60.1	48.0	44.9	43.3	—	41.3	3.44
3F.....	7	70.3	63.2	61.6	57.8	—	62.2	N.S.
3G.....	4	36.5	29.3	29.2	27.7	—	27.8	2.55
3H.....	2	38.6	41.7	42.1	35.3	—	40.9	N.S.
3J.....	7	62.3	55.1	50.5	49.8	—	49.3	4.08
4A.....	4	34.2	30.2	31.3	30.2	—	28.5	2.97
4B.....	3	50.8	44.1	39.7	39.4	—	42.4	N.S.

***Necessary Difference**—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of these differences. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over another in that particular zone group.

N.S.—No significant grain yield difference between varieties.

**See zone map, page 45.

Table No. 26. Zones 1A to 2D (except 2A). In this area **Husky** produced the highest yields on an average basis, placing first in six of the seven zones. On an average basis **Vantage** placed second. It was first in one zone, second in four, third in one and fifth in one zone. There was considerable variation in the placing of the other three varieties from zone to zone, but on an average basis they ranked in the following order: **Vantmore**, **Traill**, **Parkland**.

Zones 2A and 2E to 4B. In this area **Husky** consistently outyielded the other four varieties, placing first in all but one of these zones. **Parkland** and **Traill** were fairly close in yield. **Montcalm** placed fourth on an average basis and **Vantmore** placed fifth, although there was considerable variation in the placing of these two varieties from one zone to the other.

**Table No. 27—Average Number of Days from Seeding to Ripening
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Husky	Parkland	Traill	Vantmore	Vantage	Montcalm
1A.....	83.4	83.0	82.4	84.3	84.1	—
1C.....	93.5	92.5	91.1	91.6	92.9	—
1D.....	104.0	105.5	104.5	105.0	105.0	—
2A.....	85.7	84.9	83.9	84.9	—	85.3
2B.....	85.5	84.0	83.3	84.5	85.3	—
2D.....	99.9	99.6	98.6	99.2	99.9	—
2E.....	90.0	86.0	85.0	86.0	—	87.0
3A.....	91.0	89.0	88.7	89.0	—	88.0
3B.....	91.8	90.8	89.6	90.8	—	91.4
3C.....	93.4	90.8	91.0	92.4	—	91.8
3D.....	88.6	86.0	86.0	86.3	—	87.9
3E.....	107.3	104.0	101.0	101.3	—	105.3
3F.....	87.0	83.3	82.0	84.0	—	88.0
3G.....	91.0	92.0	90.0	91.0	—	94.0
3H.....	103.0	100.0	96.0	102.0	—	103.0
3J.....	99.5	100.0	99.3	98.5	—	98.8
4A.....	101.5	100.0	98.5	100.0	—	101.0
4B.....	108.0	104.0	108.0	106.0	—	108.0

Table No. 27. Zones 1A to 2D (except 2A). In this area **Traill** proved to be the earliest variety, placing first in four of the five zones. The placing of **Parkland** and **Vantmore** varied from one zone to another, but on an average basis they were nearly equal. **Vantage** and **Husky** were generally later in maturity than the other varieties.

Zones 2A and 2E to 4B. **Traill** was generally earlier maturing than the other varieties in this area, placing first in eight of these zones. **Parkland** and **Vantmore** ranked next with no appreciable difference between them. **Montcalm** ranked fourth on an average basis and **Husky** was quite consistently the latest of the five varieties.

Table No. 28—Average Height of Plants in Inches
Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Parkland	Traill	Vantmore	Vantage	Montcalm
1A.....	26.5	29.3	26.6	27.1	26.6	—
1B.....	24.5	29.5	28.0	26.0	26.5	—
1C.....	18.0	17.6	16.8	17.9	17.9	—
1D.....	29.3	29.7	27.7	30.3	30.3	—
2A.....	28.8	29.9	29.6	29.3	—	30.8
2B.....	26.0	27.3	25.5	26.2	26.0	—
2D.....	19.0	19.4	17.9	18.4	18.6	—
2E.....	21.0	22.0	21.0	22.0	—	24.0
3A.....	25.7	28.0	26.0	26.0	—	27.3
3B.....	31.3	31.5	30.7	30.8	—	34.7
3C.....	28.3	30.9	27.9	29.3	—	32.6
3D.....	31.5	34.0	30.3	30.3	—	34.9
3E.....	29.3	30.7	27.7	28.3	—	31.7
3F.....	29.7	31.5	30.3	30.3	—	32.8
3G.....	20.3	19.3	19.7	19.7	—	21.0
3H.....	23.0	23.0	18.0	24.0	—	28.0
3J.....	27.0	27.8	25.3	25.8	—	28.8
4A.....	23.7	24.0	23.3	24.0	—	25.3
4B.....	25.3	26.7	24.3	26.0	—	27.7

Table No. 28. Zones 1A to 2D (except 2A). There was not enough difference in the length of straw of these five varieties to have any economic importance. **Parkland** was the tallest variety in four of the zones in this area. It placed third in one zone and fifth in the other. **Vantmore** and **Vantage** were nearly equal in height in all of these zones. **Husky** and **Traill** placed fourth and fifth respectively on an average basis but there was considerable variation in their placing from zone to zone.

Zones 2A and 2E to 4B. **Montcalm** exceeded the other varieties in height in twelve of the thirteen zones in this area. On an average basis **Parkland** was second tallest. **Vantmore** and **Husky** were third and fourth tallest respectively in this area and **Traill** was generally shorter than the other four.

Table No. 29—Average Straw Strength of Plants
On the Basis 1 (Strong) to 9 (Weak)
Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Parkland	Traill	Vantmore	Vantage	Montcalm
1A.....	1.8	1.8	1.8	1.2	1.4	—
1C.....	3.4	2.9	2.8	2.8	3.1	—
1D.....	1.5	1.7	1.4	1.4	1.8	—
2A.....	3.0	2.8	3.0	2.4	—	2.9
2B.....	1.8	1.8	2.1	1.4	1.6	—
2D.....	2.9	2.6	2.4	2.2	2.4	—
2E.....	2.5	3.0	2.3	1.0	—	2.8
3A.....	1.8	2.0	2.3	1.4	—	2.3
3B.....	2.9	2.7	2.7	2.3	—	3.7
3C.....	2.2	2.3	2.5	1.8	—	3.5
3D.....	2.8	3.0	2.2	1.6	—	3.1
3E.....	1.2	1.3	1.0	1.0	—	1.3
3F.....	2.2	2.4	2.5	1.1	—	2.8
3G.....	2.6	1.9	2.0	1.3	—	3.0
3H.....	1.5	1.0	1.7	1.4	—	1.9
3J.....	3.3	3.0	2.8	1.6	—	3.6
4A.....	2.9	3.0	3.6	1.9	—	1.9
4B.....	1.8	5.2	3.2	2.9	—	4.2

Table No. 29. Zones 1A to 2D (except 2A). No serious straw weakness was evident among any of the varieties tested in this area. **Vantmore** placed first in three of the five zones in the area and tied for first place in the remaining two. **Traill** placed second on an average basis, followed by **Vantage**, **Parkland** and **Husky** in that order.

Zones 2A and 2E to 4B. In this area, as well, no serious straw weakness was evident in any of the varieties tested. **Vantmore** showed the highest straw strength, placing first in nine of the thirteen zones. **Husky**, **Traill** and **Parkland** showed very little difference in straw strength in this area. **Montcalm** was generally somewhat weaker than the other varieties.

Table No. 30—Average Neck Strength of Plants
On the Basis 1 (Strong) to 3 (Weak)
Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Parkland	Traill	Vantmore	Vantage	Montcalm
1A.....	1.9	2.2	2.0	1.4	1.4	—
1C.....	2.1	2.3	2.4	1.5	1.5	—
1D.....	2.4	2.7	2.5	1.4	1.2	—
2A.....	2.1	2.3	2.1	1.4	—	2.1
2B.....	2.1	2.3	2.4	1.2	1.3	—
2D.....	2.0	1.9	2.2	1.7	1.7	—
2E.....	2.5	3.0	3.0	1.0	—	2.0
3A.....	1.7	2.1	2.4	1.7	—	2.3
3B.....	1.5	1.8	1.8	1.3	—	1.8
3C.....	1.6	1.7	2.1	1.4	—	1.7
3D.....	2.0	1.9	1.9	1.3	—	2.0
3E.....	1.7	1.8	1.9	1.2	—	2.1
3F.....	2.0	2.3	2.5	1.1	—	1.9
3G.....	2.7	2.6	2.7	1.6	—	2.5
3H.....	1.5	2.2	2.2	1.3	—	1.8
3J.....	2.1	2.2	2.4	1.1	—	2.1
4A.....	1.8	2.0	1.8	1.3	—	1.8
4B.....	2.0	2.3	2.0	1.8	—	2.0

Table No. 30. Zones 1A to 2D (except 2A). In this area **Vantmore** and **Vantage** showed almost identical neck strength. **Husky** was somewhat weaker, placing third on an average basis. **Parkland** and **Traill** placed fourth and fifth respectively, with little difference between them.

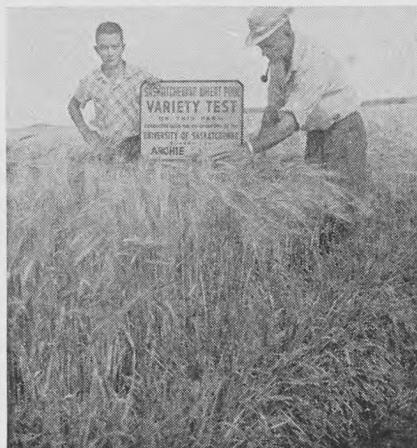
Zones 2A and 2E to 4B. **Vantmore** placed first in twelve of these zones and tied for first place in the remaining zone. On an average basis **Husky** ranked in second place. **Montcalm** placed third in this area on an average basis. **Parkland** and **Traill** were almost equal in nearly every zone, and showed less strength than the other three.

Table No. 31—Average Weight Per Measured Bushel
Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Parkland	Traill	Vantmore	Vantage	Montcalm
1A.....	46.1	48.2	46.8	46.3	46.3	—
1B.....	46.8	48.4	45.8	45.2	45.4	—
1C.....	44.6	45.8	44.1	44.5	44.3	—
1D.....	49.8	51.0	49.2	47.8	49.2	—
2A.....	44.3	44.9	43.4	44.6	—	44.9
2B.....	47.3	49.0	47.3	46.0	46.5	—
2C.....	50.0	50.0	48.0	45.5	46.5	—
2D.....	45.5	45.7	44.3	43.4	43.9	—
2E.....	45.5	45.5	44.5	44.5	—	44.5
3A.....	45.0	45.7	43.0	43.7	—	45.3
3B.....	46.2	47.5	46.5	45.0	—	46.5
3C.....	48.6	48.3	46.3	45.0	—	47.3
3D.....	47.3	49.2	47.4	46.6	—	47.6
3E.....	47.3	49.0	47.0	45.8	—	46.8
3F.....	47.9	48.7	48.4	46.0	—	48.0
3G.....	45.5	45.8	45.3	44.5	—	45.5
3H.....	46.5	48.0	47.0	45.5	—	47.5
3J.....	46.3	47.3	46.1	44.4	—	45.9
4A.....	41.5	44.0	43.8	42.0	—	41.8
4B.....	48.3	47.3	45.7	45.0	—	46.0

Table No. 31. Zones 1A to 2D (except 2A). The samples of **Parkland** in this area weighed up well and this variety exceeded the others in weight in six of the zones and tied for first place in the other one. **Husky** placed second on an average basis, although in Zone 1A it placed fifth. **Traill** placed third on an average basis. **Vantage** placed fourth on an average basis and **Vantmore** was generally outweighed by the other four varieties.

Zones 2A and 2E to 4B. In this area **Parkland** quite consistently outweighed the other varieties while **Vantmore** placed fifth in most of the zones. The other three varieties ranged between these two. On an average basis they ranked in the following order: **Husky**, **Montcalm** and **Traill**.



Gordon South, delegate, is shown inspecting Archie Childs' barley test at Brooksby.



Wheat Pool delegate L. V. Parker and his son Gerry, who conducted a barley test in 1957.

Table No. 32—Percentage of Commercial Grades by Varieties

Variety	(Zones 1A to 2D, except 2A)					
	1 C.W. %	2 C.W. %	3 C.W. %	1 Feed %	2 Feed %	3 Feed %
Husky.....	—	—	—	61.4	28.1	10.5
Parkland.....	26.3	19.3	28.2	1.7	21.0	3.5
Traill.....	—	—	—	57.9	28.1	14.0
Vantmore.....	—	—	—	43.9	45.6	10.5
Vantage.....	—	—	—	50.8	43.9	5.3
(Zones 2A and 2E to 4B)						
Variety	1 C.W. %	2 C.W. %	3 C.W. %	1 Feed %	2 Feed %	3 Feed %
Husky.....	—	—	—	65.6	26.9	7.5
Parkland.....	6.0	32.8	34.3	6.0	14.9	6.0
Traill.....	—	—	—	56.7	34.3	9.0
Vantmore.....	—	—	—	35.8	53.7	10.5
Montcalm.....	1.5	22.4	41.7	3.0	25.4	6.0

Table No. 32. Zones 1A to 2D (except 2A). No direct comparison can be made between **Parkland** and the four feed varieties tested in this area. **Parkland** graded well with 45% of the samples falling in the 1 and 2 C.W. grades. The grades of the four feed varieties followed closely their placing as regards bushel weight. **Husky** and **Traill** graded well with 61% and 58% of the samples falling in the top feed grade **Vantage** was slightly lower with 51% in this grade and **Vantmore** placed fifth with 44% in this grade.

Zones 2A and 2E to 4B. It is not possible to make a direct comparison between the two malting varieties, **Parkland** and **Montcalm**, and the three feed varieties tested in this area. Of the malting varieties, **Parkland** graded better with 39% of the samples included in the top two grades as compared

with 24% in the case of **Montcalm**. **Husky** graded highest of the three feed varieties, with 66% of the samples grading 1 Feed. **Traill** graded well with 57% of the samples falling in the top feed grade. **Vantmore** was considerably lower in grade than the other varieties.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

Table No. 33—Summarized Results for Zone 1A

	(10 satisfactory tests)				
	Husky	Parkland	Traill	Vantmore	Vantage
Yield in bushels per acre*.....	53.1	48.7	49.0	48.9	52.0
Days from seeding to ripening.....	83.4	83.0	82.4	84.3	84.1
Height of plants in inches.....	26.5	29.3	26.6	27.1	26.6
Straw strength (basis 1-strong to 9-weak).....	1.8	1.8	1.8	1.2	1.4
Neck strength (basis: 1-strong, 2-medium, 3-weak).....	1.9	2.2	2.0	1.4	1.4
Bushel weight in pounds.....	46.1	48.2	46.8	46.3	46.3
Commercial grades in percentage:					
1 C.W. 6 R....	—	33.3	—	—	—
2 C.W. 6 R....	—	16.7	—	—	—
3 C.W. 6 R....	—	33.3	—	—	—
1 Feed.....	66.7	—	66.7	66.7	58.3
2 Feed.....	16.7	16.7	25.0	33.3	41.7
3 Feed.....	16.6	—	8.3	—	—

*Necessary difference—2.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1A

Husky outyielded the other four varieties tested in this zone in 1957. It has yielded well in Wheat Pool tests in this area for several years. However, because of its rather late maturity and some tendency to shatter it is not officially recommended.

Vantage placed second in this zone in 1957. It placed second in the previous year and first in 1955. It is officially recommended for the zone.

Traill placed third in yield in this zone in its first year of testing by the Wheat Pool. It has not yet been tested sufficiently for any official recommendation to be made.

Vantmore placed fourth in yield in 1957 and third in the previous year. It does not appear particularly adapted to this area and is not recommended.

Parkland was outyielded by the other four varieties in this zone in 1957. It placed fourth in the previous year and third in 1955. It is not recommended for this zone.

Table No. 34—Summarized Results for Zone 1B

(5 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Vantage
Yield in bushels per acre*.....	39.3	37.5	33.9	34.0	33.8
Days from seeding to ripening.....	—	—	—	—	—
Height of plants in inches.....	24.5	29.5	28.0	26.0	26.5
Straw strength (basis 1-strong to 9-weak).....	—	—	—	—	—
Neck strength (basis: 1-strong, 2-medium, 3-weak).....	—	—	—	—	—
Bushel weight in pounds.....	46.8	48.4	45.8	45.2	45.4
Commercial grades in percentage:					
1 C.W. 6 R....	—	40.0	—	—	—
2 C.W. 6 R....	—	20.0	—	—	—
3 C.W. 6 R....	—	20.0	—	—	—
1 Feed.....	60.0	—	60.0	60.0	60.0
2 Feed.....	40.0	20.0	20.0	20.0	20.0
3 Feed.....	—	—	20.0	20.0	20.0

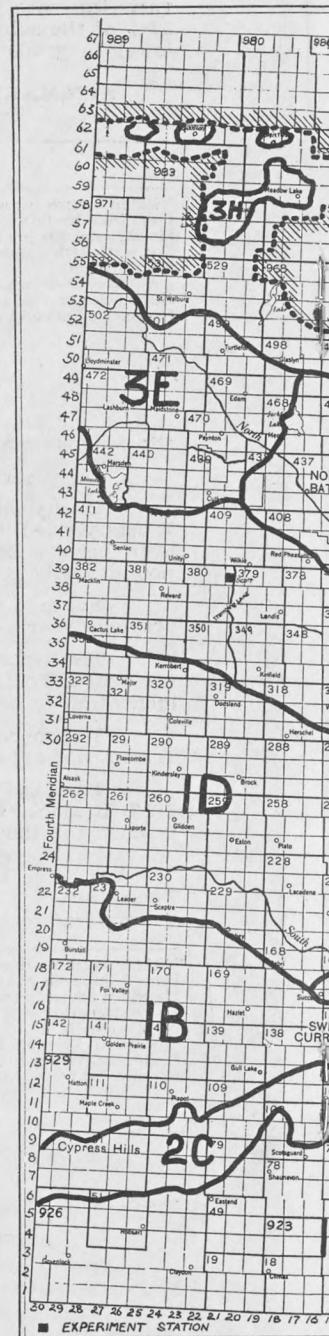
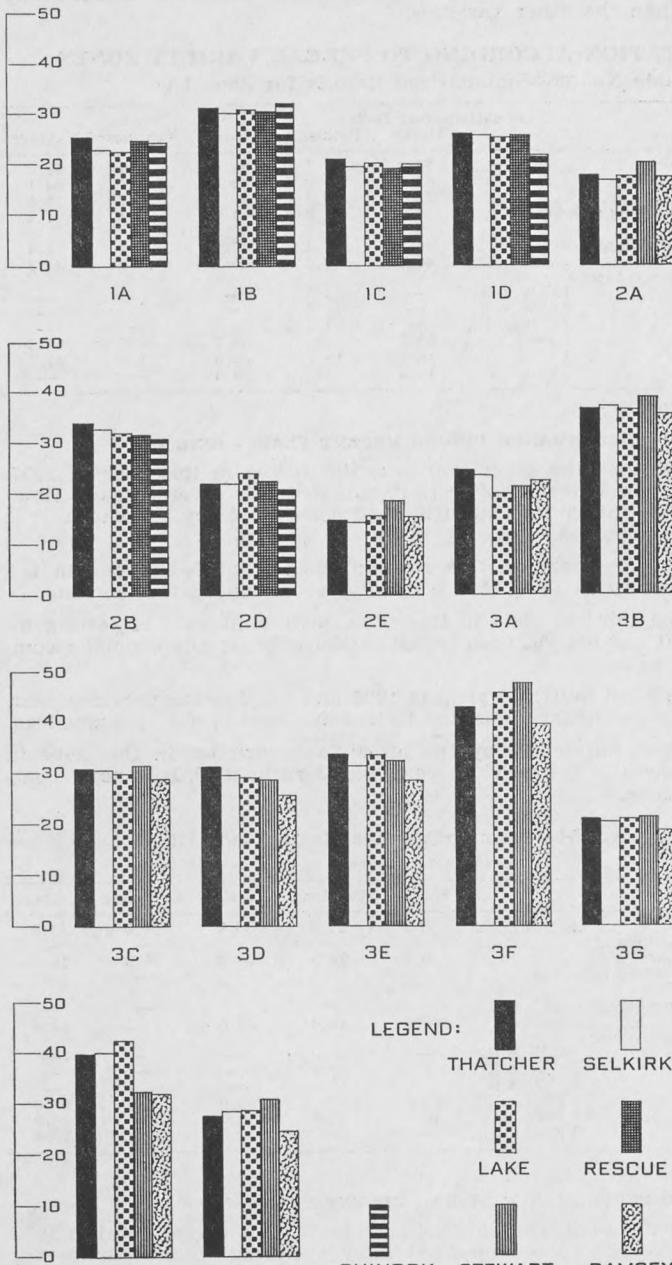
*Necessary difference—3.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1B

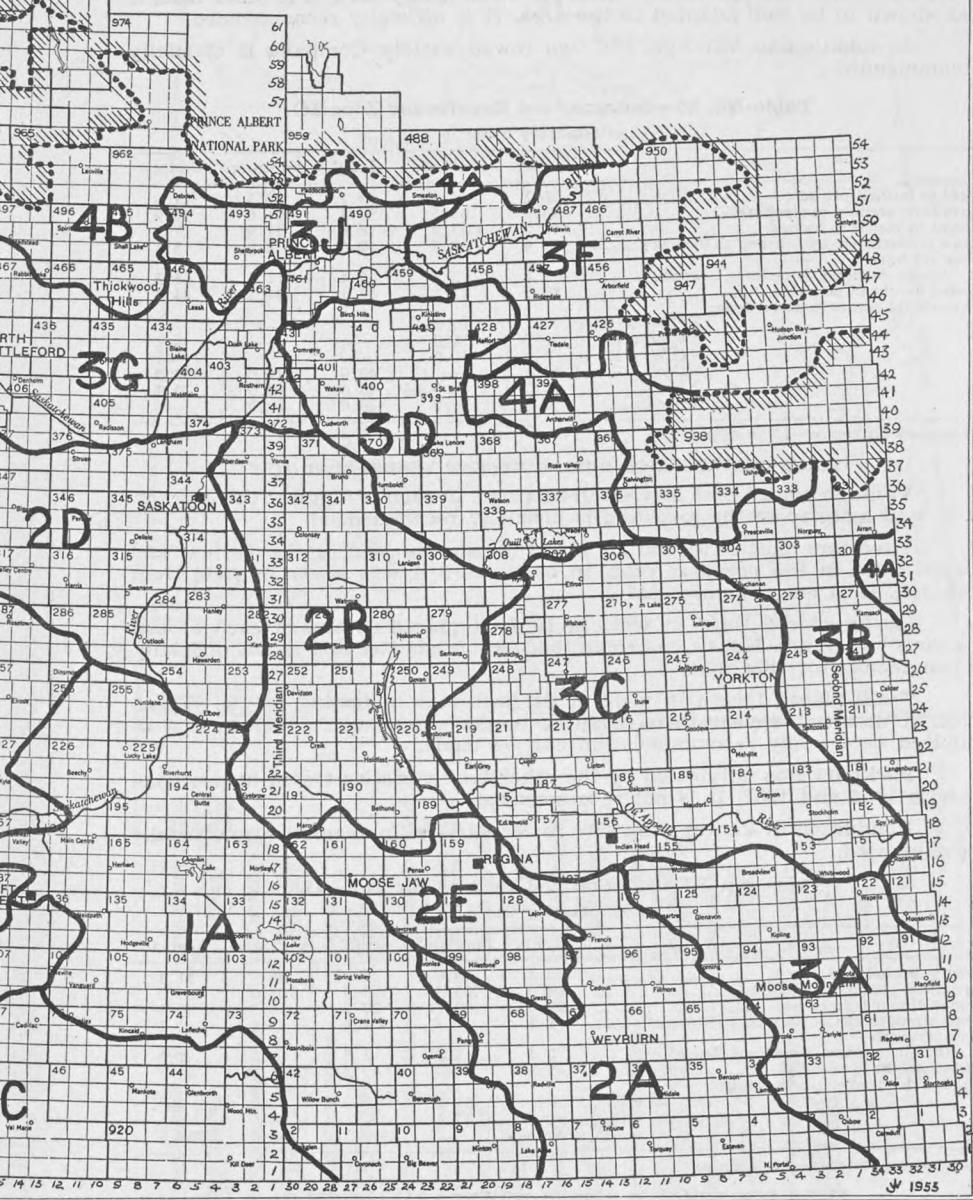
Husky placed first in yield in this zone in 1957. It placed third in 1956 and second in 1955. **Husky** is somewhat later maturing than a number of other varieties and has some tendency to shatter. It is not officially recommended for this zone.

Parkland placed second in yield in 1957. It placed fifth in 1956 and third in 1955. It is not officially recommended for this zone.

GRAPH SHOWING COMPARATIVE WHEAT YIELDS



CEREAL VARIETY ZONES OF SASKATCHEWAN



Fully up to date in the numbers and boundaries of municipalities and local improvement districts owing to changes that are being made.

Vantmore placed third in yield. While it outyielded Vantage in 1957, during the previous year it was substantially lower. It is not recommended.

Traill placed fourth in this zone in 1957, in its first year of testing by the Wheat Pool. It has not yet been tested sufficiently for any official recommendation to be made.

Vantage was outyielded by the other varieties tested in 1957. However, during the two previous years it placed first in yield and in other tests it has shown to be well adapted to the area. It is officially recommended.

In addition to Vantage, the two rowed variety Compana is officially recommended.

Table No. 35—Summarized Results for Zone 1C
(6 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Vantage
Yield in bushels per acre *.....	26.2	22.8	24.7	26.5	27.6
Days from seeding to ripening.....	93.5	92.5	91.1	91.6	92.9
Height of plants in inches.....	18.0	17.6	16.8	17.9	17.9
Straw strength (basis 1-strong to 9-weak).....	3.4	2.9	2.8	2.8	3.1
Neck strength (basis: 1-strong, 2-medium, 3-weak).....	2.1	2.3	2.4	1.5	1.5
Bushel weight in pounds.....	44.6	45.8	44.1	44.5	44.3
Commercial grades in percentage:					
1 C.W. 6 R.	—	10.0	—	—	—
2 C.W. 6 R.	—	10.0	—	—	—
3 C.W. 6 R.	—	30.0	—	—	—
1 Feed.....	30.0	—	40.0	20.0	30.0
2 Feed.....	40.0	40.0	40.0	70.0	70.0
3 Feed.....	30.0	10.0	20.0	10.0	—

*Necessary difference—1.9 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1C

Vantage placed first in yield in this zone in each of the last three years. It is well adapted to the area and is officially recommended.

Vantmore placed second in this zone in the year under review and placed third in the previous year. In both years it was lower in yield than Vantage. It is not recommended.

Husky placed third in yield in 1957. It placed second in each of the previous two years. Husky has some tendency to shatter and is not officially recommended for this zone.

Traill placed fourth in yield in its first year of testing by the Wheat Pool. It does not appear to be adapted to this area, but further testing is required before any recommendation can be made.

Parkland was outyielded by the other four varieties tested in this zone in both 1956 and 1957. It is not recommended.

In addition to Vantage, the two rowed variety Compana is also officially recommended.

Table No. 36—Summarized Results for Zone 1D
(5 satisfactory tests)

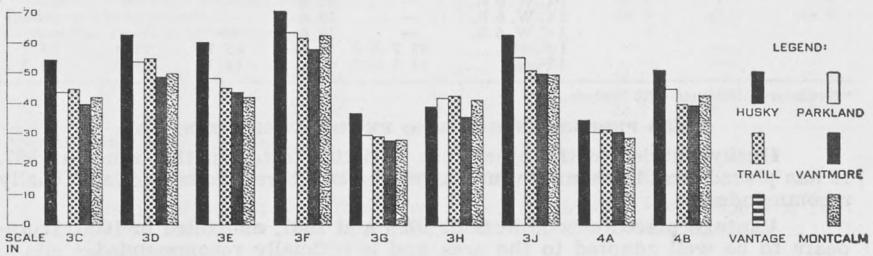
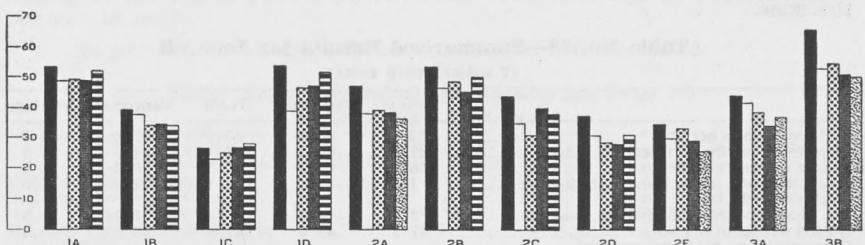
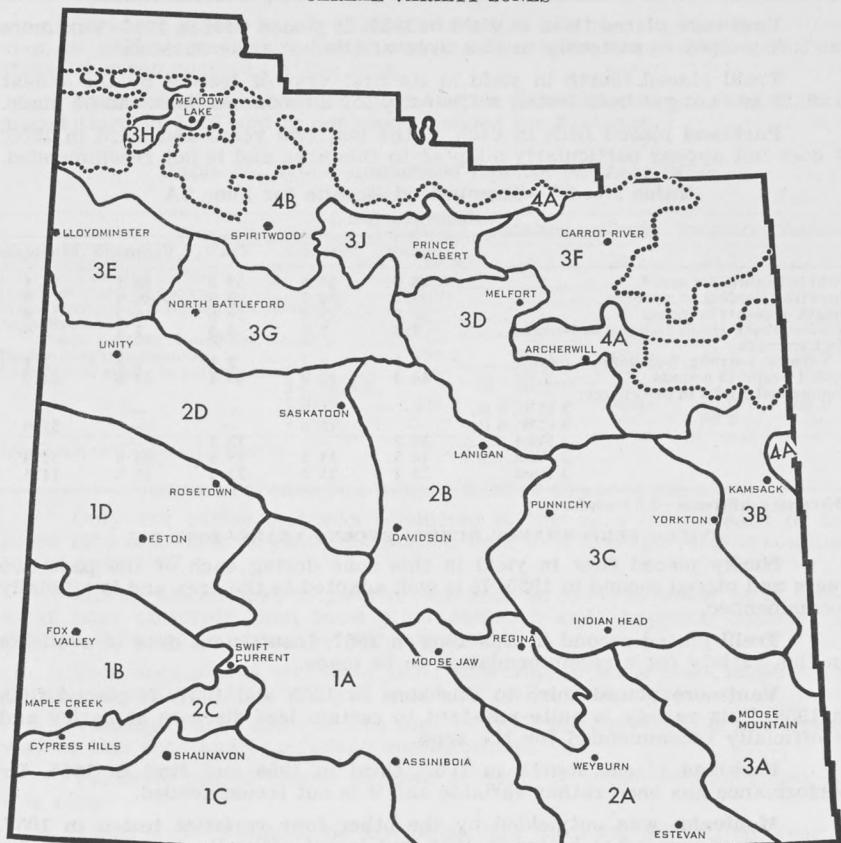
	Husky	Parkland	Traill	Vantmore	Vantage
Yield in bushels per acre *.....	53.6	38.6	46.1	46.8	51.3
Days from seeding to ripening.....	104.0	105.5	104.5	105.0	105.0
Height of plants in inches.....	29.3	29.7	27.7	30.3	30.3
Straw strength (basis 1-strong to 9-weak).....	1.5	1.7	1.4	1.4	1.8
Neck strength (basis: 1-strong, 2-medium, 3-weak).....	2.4	2.7	2.5	1.4	1.2
Bushel weight in pounds.....	49.8	51.0	49.2	47.8	49.2
Commercial grades in percentage:					
1 C.W. 6 R.	—	66.7	—	—	—
2 C.W. 6 R.	—	33.3	—	—	—
1 Feed.....	100.0	—	100.0	100.0	100.0

*Necessary difference—3.9 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1D

Husky outyielded the other four varieties in this zone in 1957. It placed fourth in 1956 and second in 1955. It is officially recommended for the zone.

GRAPHS SHOWING BARLEY YIELDS BY CEREAL VARIETY ZONES



SCALE
IN
BUCHOLZ

Vantage placed second in 1957, third in 1956 and first in 1955. It appears to be well adapted to the area and is officially recommended.

Vantmore placed third in yield in 1957. It placed first in 1956. Vantmore has not yielded consistently in this area and is not recommended.

Traill placed fourth in yield in its first year of testing by the Wheat Pool. It has not yet been tested sufficiently for a recommendation to be made.

Parkland placed fifth in each of the last two years and third in 1955. It does not appear particularly adapted to this area and is not recommended.

Table No. 37—Summarized Results for Zone 2A
(7 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Montcalm
Yield in bushels per acre*	46.6	37.6	39.0	38.1	36.1
Days from seeding to ripening	85.7	84.9	83.9	84.9	85.3
Height of plants in inches	28.8	29.9	29.6	29.3	30.8
Straw strength (basis 1-strong to 9-weak)	3.0	2.8	3.0	2.4	2.9
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.1	2.3	2.1	1.4	2.1
Bushel weight in pounds	44.3	44.9	43.4	44.6	44.9
Commercial grades in percentage:					
2 C.W. 6 R.	—	11.1	—	—	—
3 C.W. 6 R.	—	33.4	—	—	55.6
1 Feed	33.3	—	22.2	—	—
2 Feed	44.5	33.3	55.6	88.9	33.3
3 Feed	22.2	22.2	22.2	11.1	11.1

*Necessary difference—2.6 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2A

Husky placed first in yield in this zone during each of the past two years and placed second in 1955. It is well adapted to the area and is officially recommended.

Traill placed second in this zone in 1957. Insufficient data is available on this variety for a recommendation to be made.

Vantmore placed third in this zone in 1955 and 1957. It placed fifth in 1956. This variety is quite resistant to certain leaf diseases of barley and is officially recommended for the zone.

Parkland placed fourth in 1957, third in 1956 and first in 1955. Its performance has been rather variable and it is not recommended.

Montcalm was outyielded by the other four varieties tested in 1957. It performed somewhat better in 1956, but is not officially recommended for the zone.

Table No. 38—Summarized Results for Zone 2B
(7 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Vantage
Yield in bushels per acre*	53.0	46.2	48.1	45.0	48.9
Days from seeding to ripening	85.5	84.0	83.3	84.5	85.3
Height of plants in inches	26.0	27.3	25.5	26.2	26.0
Straw strength (basis 1-strong to 9-weak)	1.8	1.8	2.1	1.4	1.6
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.1	2.3	2.4	1.2	1.3
Bushel weight in pounds	47.3	49.0	47.3	46.0	46.5
Commercial grades in percentage:					
1 C.W. 6 R.	—	42.8	—	—	—
2 C.W. 6 R.	—	28.6	—	—	—
3 C.W. 6 R.	—	28.6	—	—	—
1 Feed	85.7	—	85.7	71.4	85.7
2 Feed	14.3	—	14.3	28.6	14.3

*Necessary difference—2.3 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2B

Husky outyielded the other four varieties tested in this zone in 1957. It has placed first in this zone in each of the last three years and is officially recommended.

Vantage placed second in both 1956 and 1957, and third in 1955. It appears to be well adapted to the area and is officially recommended.

Traill placed third in its first year of testing by the Wheat Pool. It has not yet been tested sufficiently for a recommendation to be made.

Parkland placed fourth in each of the last two years in this zone. However, in 1955 it performed better and in other tests has yielded well. It is officially recommended for the zone.

Vantmore was outyielded by the other four varieties tested in 1957. It placed third in 1956 and is not recommended for the zone.

Table No. 39—Summarized Results for Zone 2C
(2 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Vantage
Yield in bushels per acre *	43.4	34.5	30.3	39.5	37.5
Days from seeding to ripening	—	—	—	—	—
Height of plants in inches	—	—	—	—	—
Straw strength (basis 1-strong to 9-weak)	—	—	—	—	—
Neck strength (basis: 1-strong, 2-medium, 3-weak)	—	—	—	—	—
Bushel weight in pounds	50.0	50.0	48.0	45.5	46.5
Commercial grades in percentage:					
1 C.W. 6 R.	—	50.0	—	—	—
3 C.W. 6 R.	—	50.0	—	—	—
1 Feed	100.0	—	100.0	50.0	100.0
2 Feed	—	—	—	50.0	—

*Necessary difference—3.5 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2C

Only one barley test was conducted in this zone during each of the years 1955 and 1956, so yield information on a zone average basis is confined to the year 1957.

Husky placed first in yield in this zone in 1957. However, it is somewhat later maturing than some other varieties and has some tendency to shatter. It is not recommended for this zone.

Vantmore placed second in 1957. However, in other tests in this area it has not performed as well and is not officially recommended.

Vantage placed third in this zone in 1957. In other tests it has yielded well in this zone and is officially recommended.

Parkland placed fourth in yield in 1957. It is not recommended for this zone.

Traill was outyielded by the other four varieties in its first year of testing by the Wheat Pool. Further testing is required before a recommendation can be made.

In addition to Vantage, **Titan** is officially recommended.

Table No. 40—Summarized Results for Zone 2D
(14 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Vantage
Yield in bushels per acre *	37.1	30.5	28.3	27.9	30.7
Days from seeding to ripening	99.9	99.6	98.6	99.2	99.9
Height of plants in inches	19.0	19.4	17.9	18.4	18.6
Straw strength (basis 1-strong to 9-weak)	2.9	2.6	2.4	2.2	2.4
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.0	1.9	2.2	1.7	1.7
Bushel weight in pounds	45.5	45.7	44.3	43.4	43.9
Commercial grades in percentage:					
2 C.W. 6 R.	—	20.0	—	—	—
3 C.W. 6 R.	—	33.3	—	—	—
1 Feed	46.7	6.7	26.7	—	13.3
2 Feed	46.7	33.3	46.6	73.3	73.4
3 Feed	6.6	6.7	26.7	26.7	13.3

*Necessary difference—1.5 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2D

Husky outyielded the other four varieties tested in both 1956 and 1957, and it placed second in 1955. It appears well adapted to this area and is officially recommended.

Vantage placed second in each of the past two years and it placed third in 1955. It is officially recommended for the zone.

Parkland placed third in 1957. It placed fifth in 1956, but first in 1955. It is officially recommended for the zone.

Traill placed fourth in its first year of testing by the Wheat Pool.

Vantmore was outyielded by the other four varieties tested in 1957 and it placed third in 1956. It is not recommended.

Table No. 41—Summarized Results for Zone 2E

(2 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Montcalm
Yield in bushels per acre*.....	34.0	29.4	32.7	28.9	25.2
Days from seeding to ripening.....	90.0	86.0	85.0	86.0	87.0
Height of plants in inches.....	21.0	22.0	21.0	22.0	24.0
Straw strength (basis 1-strong to 9-weak).....	2.5	3.0	2.3	1.0	2.8
Neck strength (basis: 1-strong, 2-medium, 3-weak).....	2.5	3.0	3.0	1.0	2.0
Bushel weight in pounds.....	45.5	45.5	44.5	44.5	44.5
Commercial grades in percentage:					
3 C.W. 6 R.....	—	50.0	—	—	50.0
1 Feed.....	50.0	—	—	50.0	—
2 Feed.....	50.0	50.0	100.0	—	50.0
3 Feed.....	—	—	—	50.0	—

*No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2E

Husky outyielded the other four varieties tested in this zone in 1957. However, it did not yield as well in the previous two years, placing fifth in 1956 and third in 1955. It is not recommended.

Traill placed second in this zone in its first year of testing by the Wheat Pool. It has not yet been tested sufficiently so that an official recommendation can be made.

Parkland placed third in 1957 and second in each of the previous two years. However, it has not performed as well in other tests and is not officially recommended for the zone.

Vantmore placed fourth in 1957. It tied for third place in 1956 and was the top yielding variety in 1955. It is officially recommended for the zone.

Montcalm was outyielded by the other four varieties tested in 1957. It yielded well in the previous year, but because of its rust susceptibility and weak straw it is not officially recommended.

Vantage is officially recommended, in addition to **Vantmore**, for this zone.

Table No. 42—Summarized Results for Zone 3A

(3 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Montcalm
Yield in bushels per acre*.....	43.8	41.6	38.2	33.6	36.8
Days from seeding to ripening.....	91.0	89.0	88.7	89.0	88.0
Height of plants in inches.....	25.7	28.0	26.0	26.0	27.3
Straw Strength (basis 1-strong to 9-weak).....	1.8	2.0	2.3	1.4	2.3
Neck strength (basis: 1-strong, 2-medium, 3-weak).....	1.7	2.1	2.4	1.7	2.3
Bushel weight in pounds.....	45.0	45.7	43.0	43.7	45.3
Commercial grades in percentage: 3 C.W. 6 R.					
1 Feed.....	33.3	—	—	—	33.3
2 Feed.....	66.7	33.3	66.7	66.7	66.7
3 Feed.....	—	—	33.3	33.3	—

*Necessary difference—3.4 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

Husky outyielded the other four varieties tested in this zone in 1957. It placed second in the previous year and fourth in 1955. It is officially recommended for this zone.

Parkland placed second in 1957. It placed first in 1955 but fifth in 1956. Parkland seems well adapted to this zone and is officially recommended.

Traill placed third in yield in its first year of testing by the Wheat Pool. It requires further testing before its adaptability can be accurately determined.

Montcalm placed fourth in this zone in 1957. It yielded quite well during the previous year but because of rust susceptibility it is not recommended for the zone.

Vantmore placed fifth of the five varieties tested in this zone in 1957, but in previous years it yielded better. It placed third in 1956 and second in 1955. Vantmore is officially recommended for this zone.

Vantage is also officially recommended for the zone.

Table No. 43—Summarized Results for Zone 3B
(6 satisfactory tests)

	Husky	Parkland	Trail	Vantmore	Montcalm
Yield in bushels per acre*	65.6	52.8	54.2	50.7	50.1
Days from seeding to ripening	91.8	90.8	89.6	90.8	91.4
Height of plants in inches	31.3	31.5	30.7	30.8	34.7
Straw strength (basis 1-strong to 9-weak)	2.9	2.7	2.7	2.3	3.7
Neck strength (basis: 1-strong, 2-medium, 3-weak)	1.5	1.8	1.8	1.3	1.8
Bushel weight in pounds	46.2	47.5	46.5	45.0	46.5
Commercial grades in percentage:					
2 C.W. 6 R.	—	33.4	—	—	33.3
3 C.W. 6 R.	—	33.3	—	—	33.3
1 Feed	66.7	—	50.0	33.4	—
2 Feed	16.7	33.3	33.3	33.3	16.7
3 Feed	16.6	—	16.7	33.3	16.7

*Necessary difference—2.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3B

Husky outyielded the other varieties tested in this zone in both 1956 and 1957. It placed second in 1955. It appears well adapted to this area and is officially recommended.

Trail placed second in its first year of testing by the Wheat Pool. It appears to be adapted to this area but further testing is required before any official recommendation can be made.

Parkland placed third in yield in this zone in 1957. It placed second in 1956 and first in 1955. It is well adapted to this area and is officially recommended.

Vantmore placed fourth in yield in this zone in 1957. During the previous year it placed fifth. However, in other tests it has performed better and it is officially recommended.

Montcalm was outyielded by the other four varieties in this zone in 1957. It placed third in the previous year. In both of these years it was outyielded by Parkland. Since it has weaker straw than Parkland and is susceptible to rust it is not recommended.

In addition to the varieties mentioned above, Vantage is also officially recommended.

Table No. 44—Summarized Results for Zone 3C
(7 satisfactory tests)

	Husky	Parkland	Trail	Vantmore	Montcalm
Yield in bushels per acre *	54.2	43.5	44.3	39.7	41.9
Days from seeding to ripening	93.4	90.8	91.0	92.4	91.8
Height of plants in inches	28.3	30.9	27.9	29.3	32.6
Straw strength (basis 1-strong to 9-weak)	2.2	2.3	2.5	1.8	3.5
Neck strength (basis: 1-strong, 2-medium, 3-weak)	1.6	1.7	2.1	1.4	1.7
Bushel weight in pounds	48.6	48.3	46.3	45.0	47.3
Commercial grades in percentage:					
1 C.W. 6 R.	—	14.3	—	—	
2 C.W. 6 R.	—	57.1	—	—	28.6
3 C.W. 6 R.	—	14.3	—	—	57.1
1 Feed	85.7	—	85.7	42.9	—
2 Feed	14.3	14.3	14.3	57.1	14.3

*No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3C

Husky outyielded the other varieties tested in this zone in 1957. It placed second in each of the two previous years, and is officially recommended.

Trail placed second in this zone in its first year of testing by the Wheat Pool. It has not been tested sufficiently to determine its adaptability in Saskatchewan.

Parkland placed third in 1957, and fourth in 1956. In 1955 it outyielded the other four varieties tested. Parkland is officially recommended for the zone.

Montcalm placed fourth in 1957. It placed first in the previous year but is not recommended because it has weaker straw than Parkland and is less resistant to rust.

Vantmore placed fifth in each of the last two years and third in 1955. It does not appear particularly adapted to this area and is not officially recommended.

In addition to the varieties mentioned above, Vantage is also officially recommended.

Table No. 45—Summarized Results for Zone 3D
(8 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Montcalm
Yield in bushels per acre*	62.5	53.5	54.2	48.2	49.7
Days from seeding to ripening	88.6	86.0	86.0	86.3	87.9
Height of plants in inches	31.5	34.0	30.3	30.3	34.9
Straw strength (basis 1-strong to 9-weak)	2.8	3.0	2.2	1.6	3.1
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.0	1.9	1.9	1.3	2.0
Bushel weight in pounds	47.3	49.2	47.4	46.6	47.6
Commercial grades in percentage:					
1 C.W. 6 R.	—	22.2	—	—	11.1
2 C.W. 6 R.	—	44.5	—	—	22.2
3 C.W. 6 R.	—	22.2	—	—	44.5
1 Feed	77.8	11.1	77.8	66.7	11.1
2 Feed	22.2	—	22.2	33.3	11.1

*Necessary difference—1.9 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3D

Husky placed first in yield in this zone in 1957. It placed third in 1956 and second in 1955. Husky appears well adapted to this area and is officially recommended.

Traill placed second in 1957, the first year in which it was tested by the Wheat Pool. On the basis of this one year it appears adapted to this general area but further testing is required before any recommendation can be made.

Parkland placed third in 1957, but it outyielded the other varieties tested in both 1955 and 1956. It is well adapted to this area and is officially recommended.

Montcalm placed fourth in 1957. It placed second in the previous year but is not recommended because it has weaker straw and less resistance to rust than has Parkland.

Vantmore was outyielded by the other varieties tested in 1957. It placed fifth in 1956 and fourth in 1955. It does not appear adapted to this area and is not recommended.

In addition to the varieties mentioned above, Hannchen and Vantage are officially recommended.

Table No. 46—Summarized Results for Zone 3E
(4 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Montcalm
Yield in bushels per acre*	60.1	48.0	44.9	43.3	41.3
Days from seeding to ripening	107.3	104.0	101.0	101.3	105.3
Height of plants in inches	29.3	30.7	27.7	28.3	31.7
Straw strength (basis 1-strong to 9-weak)	1.2	1.3	1.0	1.0	1.3
Neck strength (basis: 1-strong, 2-medium, 3-weak)	1.7	1.8	1.9	1.2	2.1
Bushel weight in pounds	47.3	49.0	47.0	45.8	46.8
Commercial grades in percentage:					
2 C.W. 6 R.	—	25.0	—	—	25.0
3 C.W. 6 R.	—	25.0	—	—	25.0
1 Feed	75.0	50.0	75.0	50.0	25.0
2 Feed	25.0	—	25.0	50.0	25.0

*Necessary difference—3.4 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3E

Husky placed first in 1955 and 1957 and second in 1956. It is well adapted to the area and is officially recommended.

Parkland placed second in this zone in 1957. It placed third in each of the two previous years. It is officially recommended.

Traill placed third in this zone in its first year of testing by the Wheat Pool. It requires further testing before any definite recommendation can be made.

Vantmore placed fourth in yield in 1957. It placed fifth in the previous year and second in 1955. It is not recommended for this zone.

Montcalm was outyielded by the other four varieties in 1957, but in the previous year it placed first in this zone. In other tests it has yielded well in this area and it is officially recommended.

In addition to the varieties mentioned above **Vantage** is also recommended for this zone.

Table No. 47—Summarized Results for Zone 3F
(7 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Montcalm
Yield in bushels per acre*.....	70.3	63.2	61.6	57.8	62.2
Days from seeding to ripening.....	87.0	83.3	82.0	84.0	88.0
Height of plants in inches.....	29.7	31.5	30.3	30.3	32.8
Straw strength (basis 1-strong to 9-weak).....	2.2	2.4	2.5	1.1	2.8
Neck strength (basis: 1-strong, 2-medium, 3-weak).....	2.0	2.3	2.5	1.1	1.9
Bushel weight in pounds.....	47.9	48.7	48.4	46.0	48.0
Commercial grades in percentage:					
1 C.W. 6 R.	—	14.3	—	—	—
2 C.W. 6 R.	—	57.1	—	—	57.1
3 C.W. 6 R.	—	14.3	—	—	28.6
1 Feed.....	71.4	—	85.7	71.4	—
2 Feed.....	28.6	14.3	14.3	28.6	14.3

*No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3F

Husky outyielded the other varieties tested in this zone in 1957. It placed second in each of the two previous years and is officially recommended.

Parkland placed second in this zone in 1957. In 1956 it placed fourth, but in 1955 it was the highest yielding of the varieties tested. It is officially recommended for this zone.

Montcalm placed third in yield in 1957 and first in the previous year. It is well adapted to this area and is officially recommended.

Traill placed fourth in this zone in its first year of testing by the Wheat Pool. It requires further testing before any accurate recommendation can be made.

Vantmore placed fifth in yield of the five varieties tested in each of the last two years. In 1955 it placed third. It does not appear particularly adapted to this zone and is not recommended.

In addition to the varieties mentioned above **Hannchen** and **Vantage** are officially recommended.

Table No. 48—Summarized Results for Zone 3G
(4 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Montcalm
Yield in bushels per acre*.....	36.5	29.3	29.2	27.7	27.8
Days from seeding to ripening.....	91.0	92.0	90.0	91.0	94.0
Height of plants in inches.....	20.3	19.3	19.7	19.7	21.0
Straw strength (basis 1-strong to 9-weak).....	2.6	1.9	2.0	1.3	3.0
Neck strength (basis: 1-strong, 2-medium, 3-weak).....	2.7	2.6	2.7	1.6	2.5
Bushel weight in pounds.....	45.5	45.8	45.3	44.5	45.5
Commercial grades in percentage:					
2 C.W. 6 R.	—	25.0	—	—	25.0
3 C.W. 6 R.	—	50.0	—	—	50.0
1 Feed.....	50.0	—	75.0	50.0	—
2 Feed.....	50.0	—	—	25.0	—
3 Feed.....	—	25.0	25.0	25.0	25.0

*Necessary difference—2.6 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3G

Husky outyielded the other four varieties tested in this zone in 1957. It placed first in 1955 and second in 1956. Husky is officially recommended for the zone.

Parkland placed second in 1957, fifth in 1956 and third in 1955. It is recommended for the zone.

Trail placed third in this zone in its first year of testing by the Wheat Pool. It will require further testing before any reliable recommendation can be made.

Montcalm placed fourth in yield in 1957. During each of the last two years it was outyielded by Parkland. Because it has weaker straw and less rust resistance than Parkland, it is not recommended.

Vantmore was outyielded by the other four varieties tested in this zone in 1957. It does not appear to be particularly well adapted to this area and is not recommended.

In addition, to the varieties mentioned above, Vantage is also officially recommended.

Table No. 49—Summarized Results for Zone 3H

(2 satisfactory tests)

	Husky	Parkland	Trail	Vantmore	Montcalm
Yield in bushels per acre*	38.6	41.7	42.1	35.3	40.9
Days from seeding to ripening	103.0	100.0	96.0	102.0	103.0
Height of plants in inches	23.0	23.0	18.0	24.0	28.0
Straw strength (basis 1-strong to 9-weak)	1.5	1.0	1.7	1.4	1.9
Neck strength (basis: 1-strong, 2-medium, 3-weak)	1.5	2.2	2.2	1.3	1.8
Bushel weight in pounds	46.5	48.0	47.0	45.5	47.5
Commercial grades in percentage: 2 C.W. 6 R.	—	100.0	—	—	100.0
1 Feed	100.0	—	50.0	50.0	—
2 Feed	—	—	50.0	50.0	—

*No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3H

Trail placed first in yield in this zone in 1957. This is its first year of testing by the Wheat Pool. Further testing is required before an accurate recommendation can be made regarding its adaptability in this area.

Parkland placed second in yield in this zone in 1957. In 1956 it placed fourth. In other tests it has yielded well in this zone and it is officially recommended.

Montcalm placed third in this zone in 1956 and 1957. It is not recommended because it is lower yielding than Parkland and has weaker straw.

Husky placed fourth in yield in 1957. However, in the previous year it outyielded the other varieties tested and in other tests it has yielded well in this area. It is officially recommended for the zone.

Vantmore was outyielded by the other four varieties tested in both 1956 and 1957. It is not recommended for the zone.

In addition to the varieties mentioned above, Vantage is also officially recommended.

Table No. 50—Summarized Results for Zone 3J

(7 satisfactory tests)

	Husky	Parkland	Trail	Vantmore	Montcalm
Yield in bushels per acre*	62.3	55.1	50.5	49.8	49.3
Days from seeding to ripening	99.5	100.0	99.3	98.5	98.8
Height of plants in inches	27.0	27.8	25.3	25.8	28.8
Straw strength (basis 1-strong to 9-weak)	3.3	3.0	2.8	1.6	3.6
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.1	2.2	2.4	1.1	2.1
Bushel weight in pounds	46.3	47.3	46.1	44.4	45.9
Commercial grades in percentage: 2 C.W. 6 R.	—	28.6	—	—	14.3
3 C.W. 6 R.	—	42.8	—	—	14.3
1 Feed	71.4	14.3	71.4	14.3	—
2 Feed	14.3	14.3	28.6	85.7	71.4
3 Feed	14.3	—	—	—	—

*Necessary difference—4.1 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3J

Husky outyielded the other varieties tested in this zone in 1957. It placed second in the previous year and first in 1955. Husky is well adapted to this area and is officially recommended.

Parkland placed second in this zone in 1955 and 1957. In 1956 it placed fourth. Parkland is recommended for the zone.

Traill placed third in this zone in its first year of testing by the Wheat Pool. It requires further testing to determine its adaptability in this area.

Vantmore placed fourth in yield in 1957. It placed third in each of the two previous years in this zone. It does not appear well adapted to this area and is not recommended.

Montcalm was outyielded by the other varieties tested in this zone in 1957. However, in the previous year it placed first. In other tests it has yielded well in this zone and it is officially recommended.

In addition to the varieties mentioned above, Vantage is also officially recommended.

Table No. 51—Summarized Results for Zone 4A
(4 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Montcalm
Yield in bushels per acre*	34.2	30.2	31.3	30.2	28.5
Days from seeding to ripening	101.5	100.0	98.5	100.0	101.0
Height of plants in inches	23.7	24.0	23.3	24.0	25.3
Straw strength (basis 1-strong to 9-weak)	2.9	3.0	3.6	1.9	1.9
Neck strength (basis: 1-strong, 2-medium, 3-week)	1.8	2.0	1.8	1.3	1.8
Bushel weight in pounds	41.5	44.0	43.8	42.0	41.8
Commercial grades in percentage: 3 C.W. 6 R.	—	75.0	—	—	50.0
1 Feed	50.0	—	25.0	—	—
2 Feed	25.0	—	50.0	75.0	25.0
3 Feed	25.0	25.0	25.0	25.0	25.0

*Necessary difference—3.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4A

Husky outyielded the other varieties tested in this zone in each of the last two years. It is well adapted to this area and is officially recommended.

Traill placed second in this zone in its first year of testing by the Wheat Pool. It appears to be adapted to this area, but further testing is required before any reliable recommendation can be made.

Parkland and **Vantmore** tied for third place in 1957. Parkland placed fifth in yield in the previous year. However, it has yielded well in other tests, and because it has greater straw strength and rust resistance than Montcalm it is officially recommended. Vantmore has not produced outstanding results and is not recommended.

Montcalm was outyielded by the other four varieties tested in this zone in 1957. It placed fourth in the previous year. It is not recommended.

In addition to the varieties mentioned above, Vantage is also officially recommended for this zone.

Table No. 52—Summarized Results for Zone 4B
(3 satisfactory tests)

	Husky	Parkland	Traill	Vantmore	Montcalm
Yield in bushels per acre*	50.8	44.1	39.7	39.4	42.4
Days from seeding to ripening	108.0	104.0	108.0	106.0	108.0
Height of plants in inches	25.3	26.7	24.3	26.0	27.7
Straw strength (basis 1-strong to 9-weak)	1.8	5.2	3.2	2.9	4.2
Neck strength (basis: 1-strong, 2-medium, 3-week)	2.0	2.3	2.0	1.8	2.0
Bushel weight in pounds	48.3	47.3	45.7	45.0	46.0
Commercial grades in percentage: 2 C.W. 6 R.	—	33.3	—	—	—
3 C.W. 6 R.	—	66.7	—	—	100.0
1 Feed	100.0	—	33.3	33.3	—
2 Feed	—	—	66.7	66.7	—

*No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4B

No successful barley tests were conducted in this zone in 1955 and only one in 1956. Therefore, yield data on a zone average basis is available only for the year 1957.

Husky outyielded the other varieties tested in this zone in 1957. It appears well adapted to this area and is officially recommended.

Parkland placed second in yield in 1957. It is officially recommended.

Montcalm placed third in this zone in 1957. It was outyielded by Parkland and has weaker straw, so it is not recommended.

Trail placed fourth in yield in its first year of testing by the Wheat Pool. It does not appear to be particularly adapted to this area, but requires further testing before a reliable recommendation can be made.

Vantmore was outyielded by the other varieties tested in this zone in 1957. It is not recommended.

In addition to the recommended varieties mentioned above, **Vantage** is also officially recommended for this zone.

Table No. 53

Individual Summarized Results of All Tests—Barley

The results of all successful barley tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to Be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Grading Remarks" see page 7.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
CHARLES W. GILROY, OXBOW											
2A	1	3	Husky.....	60.2	90	35	3.5	2.5	47	2 Fd.	—
			Parkland.....	58.9	86	38	2.3	2.8	47	3 C.W. 6 R.	—
			Trail.....	59.9	84	36	2.8	2.5	47	2 Fd.	—
			Vantmore.....	51.7	88	36	1.8	1.0	47	2 Fd.	—
			Montcalm.....	51.4	87	40	2.5	2.0	47	3 C.W. 6 R.	—
Necessary difference—5.5 bushels. Rainfall—May to August 9.79 inches.											

BRUCE E. EWAN, FROBISHER

3A	1	4	Husky.....	38.2	89	22	2.0	2.0	47	1 Fd.	—
			Parkland.....	39.7	88	24	2.5	2.3	47	3 C.W. 6 R.	—
			Trail.....	37.7	86	23	2.5	3.0	45	2 Fd.	—
			Vantmore.....	25.9	87	22	2.0	1.0	44	2 Fd.	—
			Montcalm.....	31.2	88	24	3.5	2.8	47	3 C.W. 6 R.	—
Necessary difference—6.0 bushels. Rainfall—May to August 9.53 inches.											

KEITH A. BARNSTABLE, MACOUN

2A	1	6	Husky.....	27.1	88	23	1.0	3.0	46	1 Fd.	—
			Parkland.....	16.8	90	25	1.0	3.0	46	3 C.W. 6 R.	—
			Trail.....	15.2	89	25	1.0	3.0	44	2 Fd.	—
			Vantmore.....	29.2	88	27	1.0	2.0	45	2 Fd.	—
			Montcalm.....	13.2	89	24	1.0	3.0	46	3 C.W. 6 R.	—
Necessary difference—5.2 bushels. Rainfall—May to August 7.82 inches.											

EDDY C. GOSKI, FROUDE

2A	1	8	Husky.....	—	81	26	2.5	2.0	38	3 Fd.	—
			Parkland.....	—	80	25	2.0	2.0	41	3 Fd.	—
			Trail.....	—	80	25	2.0	2.0	38	3 Fd.	—
			Vantmore.....	—	80	26	2.5	1.8	42	3 Fd.	—
			Montcalm.....	—	81	28	2.8	1.8	39	3 Fd.	—
Test damaged by animals—yields not reliable. Rainfall—May to August 8.85 inches.											

ALLAN D. BRIGDEN, KISBEY

2A	1	9	Husky.....	35.4	—	—	—	—	44	2 Fd.	—
			Parkland.....	22.0	—	—	—	—	45	2 Fd.	—
			Trail.....	28.8	—	—	—	—	43	2 Fd.	—
			Vantmore.....	26.9	—	—	—	—	45	2 Fd.	—
			Montcalm.....	26.5	—	—	—	—	45	2 Fd.	—
No significant grain yield difference between varieties. Rainfall—May to August 10.80 inches.											

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3A	1	1	Patricia M. McMillen, Carievale.
2A	1	5	Ronald J. Carrière, Cullen.
3A	1	10	Allan W. Doty, Carlyle.

WHEAT POOL DISTRICT 2

2A	2	1	Husky.....	—	86	23	7.0	2.0	41	3 Fd.	—
			Parkland.....	—	87	24	7.0	2.0	41	3 Fd.	—
			Trail.....	—	87	24	7.8	2.8	39	3 Fd.	—
			Vantmore.....	—	87	23	7.0	2.0	43	2 Fd.	—
			Montcalm.....	—	88	24	7.3	2.3	43	2 Fd.	—
Test damaged by hail—yields not reliable. Rainfall record incomplete.											

KENNETH C. KIRBY, SCOUT LAKE

1A	2	4	Husky.....	65.7	86	26	1.0	2.0	46	1 Fd.	—
			Parkland.....	58.9	86	36	2.0	3.0	51	1 C.W. 6 R.	—
			Trail.....	55.0	85	30	1.5	2.0	48	1 Fd.	—
			Vantmore.....	52.1	85	29	1.0	1.3	47	1 Fd.	—
			Vantage.....	58.2	86	28	1.0	1.5	47	1 Fd.	—
Necessary difference—5.5 bushels. Rainfall record incomplete.											

Wheat Pool District 2—Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
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GLENN McKEE, STRATHALLEN

1C.....	2	5	Husky.....	19.9	93	22	1.0	.8	45	2 Fd.	
			Parkland.....	15.0	93	19	1.0	2.0	47	3 C.W. 6 R.	
			Trail.....	13.0	93	18	1.0	2.0	44	2 Fd.	
			Vantmore.....	23.9	91	20	1.0	1.0	45	2 Fd.	
			Vantage.....	22.8	92	20	1.0	1.3	44	2 Fd.	

Test damaged by grasshoppers—yields not included in zone summary. Rainfall record incomplete.

RAYMOND C. CLERMONT, LAFLECHE

1C.....	2	6	Husky.....	—	83	—	—	—	41	3 Fd.	
			Parkland.....	—	83	—	—	—	43	2 Fd.	
			Trail.....	—	83	—	—	—	43	2 Fd.	
			Vantmore.....	—	84	—	—	—	44	2 Fd.	
			Vantage.....	—	84	—	—	—	44	2 Fd.	

Test damaged by birds—yields not reliable. Rainfall record incomplete.

LEON F. HARTMAN, FLINTOFF

1C.....	2	7	Husky.....	29.8	79	16	3.3	2.8	42	3 Fd.	
			Parkland.....	29.0	79	17	2.8	2.5	43	2 Fd.	
			Trail.....	30.1	79	15	2.5	2.8	43	2 Fd.	
			Vantmore.....	26.2	82	17	2.0	1.5	44	2 Fd.	
			Vantage.....	30.7	81	17	2.0	1.0	43	2 Fd.	

No significant grain yield difference between varieties. Rainfall—May to August 4.58 inches.

EDDIE G. BOWDEN, ASSINIBOIA

1A.....	2	8	Husky.....	24.5	—	—	—	—	45	2 Fd.	
			Parkland.....	19.7	—	—	—	—	48	2 C.W. 6 R.	
			Trail.....	20.3	—	—	—	—	48	1 Fd.	
			Vantmore.....	25.6	—	—	—	—	46	1 Fd.	
			Vantage.....	26.1	—	—	—	—	47	1 Fd.	

Necessary difference—3.8 bushels. Rainfall—May to August 3.99 inches.

L. TERRANCE MOONEY, GLASNEVIN

1A.....	2	9	Husky.....	67.2	92	25	2.0	2.0	47	1 Fd.	
			Parkland.....	56.6	88	26	1.3	3.0	49	2 C.W. 6 R.	
			Trail.....	57.7	87	25	1.3	2.0	48	1 Fd.	
			Vantmore.....	57.5	92	25	1.3	1.0	47	1 Fd.	
			Vantage.....	57.7	92	25	1.5	1.3	47	1 Fd.	

No significant grain yield difference between varieties. Rainfall—May to August 4.21 inches.

H. LORNE BOLDT, TROSSACHS

2A.....	2	10	Husky.....	39.0	—	19	3.0	2.0	44	2 Fd.	
			Parkland.....	34.6	—	21	3.0	2.0	44	2 Fd.	
			Trail.....	39.0	—	19	3.0	2.0	44	2 Fd.	
			Vantmore.....	36.6	—	19	3.0	2.0	44	2 Fd.	
			Vantage.....	40.9	—	19	3.0	2.0	43	2 Fd.	

Necessary difference—3.8 bushels. Rainfall—May to August 5.68 inches.

Single test—not included in zone summary.

GEORGE A. DAVID, OGEMA

1A.....	2	10	Husky.....	55.4	87	33	1.3	1.0	41	3 Fd.	
			Parkland.....	57.0	86	36	1.3	1.3	45	2 Fd.	
			Trail.....	53.4	86	33	1.0	1.3	44	2 Fd.	
			Vantmore.....	55.3	86	34	1.0	1.0	46	1 Fd.	
			Vantage.....	53.1	86	34	1.3	1.3	45	2 Fd.	

No significant grain yield difference between varieties. Rainfall—May to August 6.09 inches.

JOHN P. PICHE, HARPSTREE

1A.....	2	11	Husky.....	12.6	80	17	2.0	2.0	44	2 Fd.	
			Parkland.....	12.0	81	18	4.0	1.0	46	3 C.W. 6 R.	
			Trail.....	8.4	79	16	2.0	1.0	45	2 Fd.	
			Vantmore.....	16.0	82	19	1.0	2.0	45	2 Fd.	
			Vantage.....	19.3	80	16	3.0	2.0	44	2 Fd.	

Test damaged by grasshoppers—yields not included in zone summary. Rainfall—May to August 5.94 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

1A..... 2 2 Leo J. Frischholz, Minton.

WHEAT POOL DISTRICT 3

HELENE MORIN, FERLAND

1C.....	3	1	Husky.....	28.0	—	—	—	—	40	3 Fd.	
			Parkland.....	29.2	—	—	—	—	42	3 C.W. 3 Fd.	
			Trail.....	22.4	—	—	—	—	39	3 Fd.	
			Vantmore.....	30.3	—	—	—	—	42	3 Fd.	
			Vantage.....	34.3	—	—	—	—	43	2 Fd.	

No significant grain yield difference between varieties. Rainfall record incomplete.

Wheat Pool District 3—Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seeded to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ELAINE T. R. GEIGER, ROSEFIELD											
1C.....	3	2	Husky.....	—	73	21	2.8	3.0	45	2 Fd.	—
			Parkland.....	—	72	20	2.0	3.0	45	2 Fd.	—
			Trail.....	—	74	21	3.0	3.0	43	2 Fd.	—
			Vantmore.....	—	73	20	3.3	3.0	45	2 Fd.	—
			Vantage.....	—	74	20	3.5	3.0	43	2 Fd.	—
Test damaged by hail—yields not reliable. Rainfall—May to August 4.55 inches.											
BARBARA M. STUART, CLIMAX											
1C.....	3	3	Husky.....	27.3	109	15	1.3	2.5	48	1 Fd.	—
			Parkland.....	22.2	108	15	1.5	2.0	49	2 C.W. 6 R.	—
			Trail.....	28.3	106	15	1.8	2.5	47	1 Fd.	—
			Vantmore.....	29.0	108	16	1.0	1.3	46	1 Fd.	—
			Vantage.....	31.4	108	16	1.8	1.3	47	1 Fd.	—
Necessary difference—4.8 bushels. Rainfall—May to August 4.86 inches.											
FRANK H. ZIEGLER, OXARAT											
1C.....	3	5	Husky.....	25.3	98	17	4.3	1.8	50	1 Fd.	—
			Parkland.....	23.1	94	19	3.8	2.0	50	1 C.W. 6 R.	—
			Trail.....	26.4	94	17	4.3	1.8	48	1 Fd.	—
			Vantmore.....	31.6	94	17	1.0	1.3	46	1 Fd.	—
			Vantage.....	23.4	94	17	2.8	1.8	46	1 Fd.	—
Necessary difference—5.1 bushels. Rainfall—May to August 6.73 inches.											
KENNETH B. GORDON, EASTEND											
1C.....	3	6	Husky.....	—	111	15	4.5	2.3	45	2 Fd.	—
			Parkland.....	—	109	14	2.5	2.5	45	2 Fd.	—
			Trail.....	—	108	13	3.0	2.3	42	3 Fd.	—
			Vantmore.....	—	105	13	2.8	1.5	43	2 Fd.	—
			Vantage.....	—	109	14	2.5	1.3	44	2 Fd.	—
Test damaged by wind—yields not reliable. Rainfall—May to August 5.18 inches.											
KENNETH E. WILLS, EASTEND											
1C.....	3	7	Husky.....	20.8	102	18	8.0	1.0	46	1 Fd.	—
			Parkland.....	13.6	102	16	7.0	2.0	47	3 C.W. 6 R.	—
			Trail.....	19.9	92	15	5.0	3.0	46	1 Fd.	—
			Vantmore.....	18.2	96	17	9.0	1.0	45	2 Fd.	—
			Vantage.....	20.4	101	17	9.0	1.0	46	1 Fd.	—
Necessary difference—3.9 bushels. Rainfall—May to August 4.86 inches.											
BARRY A. RAYMOND, ANEROID											
1C.....	3	10	Husky.....	26.1	—	20	2.3	1.8	44	2 Fd.	—
			Parkland.....	19.4	—	21	2.5	2.0	47	3 C.W. 6 R.	—
			Trail.....	21.3	—	20	2.0	1.7	46	1 Fd.	—
			Vantmore.....	23.5	—	23	2.0	1.5	45	2 Fd.	—
			Vantage.....	25.6	—	22	2.0	1.5	43	2 Fd.	—
Necessary difference—3.1 bushels. Rainfall—May to August 5.04 inches.											

WHEAT POOL DISTRICT 4

DEWAYNE CHURCHILL, PIAPOT											
1B.....	4	1	Husky.....	24.1	—	13	—	—	50	1 Fd.	—
			Parkland.....	32.0	—	23	—	—	51	1 C.W. 6 R.	—
			Trail.....	28.9	—	20	—	—	49	1 Fd.	—
			Vantmore.....	31.3	—	16	—	—	47	1 Fd.	—
			Vantage.....	27.6	—	17	—	—	47	1 Fd.	—
No significant grain yield difference between varieties. Rainfall record incomplete.											
RICHARD A. JANS, MAPLE CREEK											
1B.....	4	2	Husky.....	18.3	—	—	—	—	46	1 Fd.	—
			Parkland.....	18.6	—	—	—	—	46	3 C.W. 6 R.	—
			Trail.....	17.7	—	—	—	—	44	2 Fd.	—
			Vantmore.....	19.0	—	—	—	—	45	2 Fd.	—
			Vantage.....	19.4	—	—	—	—	45	2 Fd.	—
No significant grain yield difference between varieties. Rainfall—May to August 6.05 inches.											
KENNETH J. WARKENTIN, SWIFT CURRENT											
2C.....	4	3	Husky.....	40.7	—	—	—	—	52	1 Fd.	—
			Parkland.....	31.0	—	—	—	—	53	1 C.W. 6 R.	—
			Trail.....	28.4	—	—	—	—	50	1 Fd.	—
			Vantmore.....	46.5	—	—	—	—	45	2 Fd.	—
			Vantage.....	39.4	—	—	—	—	47	1 Fd.	—
Necessary difference—5.4 bushels. Rainfall record incomplete.											
WILLIAM N. JEWITT, WEBB											
1B.....	4	4	Husky.....	53.0	—	—	—	—	44	2 Fd.	—
			Parkland.....	38.8	—	—	—	—	45	2 Fd.	—
			Trail.....	35.4	—	—	—	—	41	3 Fd.	—
			Vantmore.....	36.0	—	—	—	—	42	3 Fd.	—
			Vantage.....	35.0	—	—	—	—	42	3 Fd.	—
Necessary difference—5.5 bushels. Rainfall—May to August 6.65 inches.											

Wheat Pool District 4—Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ELLAINE J. SAWBY, GOLDEN PRAIRIE											
1B.....	4	6	Husky.....	55.0	—	36	—	—	50	1 Fd.	—
			Parkland.....	54.1	—	36	—	—	51	1 C.W. 6 R.	—
			Traill.....	48.9	—	36	—	—	48	1 Fd.	—
			Vantmore.....	50.3	—	36	—	—	46	1 Fd.	—
			Vantage.....	47.8	—	36	—	—	47	1 Fd.	—

No significant grain yield difference between varieties. Rainfall—May to August 5.87 inches.

NORMAN V. KAMBEITZ, LINACRE											
1B.....	4	7	Husky.....	46.0	—	—	—	—	44	2 Fd.	—
			Parkland.....	44.0	—	—	—	—	49	2 C.W. 6 R.	—
			Traill.....	38.4	—	—	—	—	47	1 Fd.	—
			Vantmore.....	33.6	—	—	—	—	46	1 Fd.	—
			Vantage.....	39.4	—	—	—	—	46	1 Fd.	—

Necessary difference—3.7 bushels. Rainfall—May to August 5.15 inches.

LORNE I. FLEWELL, LEMSFORD											
1D.....	4	9	Husky.....	—	—	—	—	—	51	1 Fd.	—
			Parkland.....	—	—	—	—	—	52	1 C.W. 6 R.	—
			Traill.....	—	—	—	—	—	51	1 Fd.	—
			Vantmore.....	—	—	—	—	—	49	1 Fd.	—
			Vantage.....	—	—	—	—	—	50	1 Fd.	—

Samples bulked—yields not reliable. Rainfall record incomplete.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

1B..... 4 5 Garry R. Higginson, Success.

1B..... 4 8 Jean Neigum, Mendham.

WHEAT POOL DISTRICT 5

S. GARRY STAMM, VANTAGE											
1A.....	5	1	Husky.....	41.7	—	—	—	—	42	3 Fd.	—
			Parkland.....	37.7	—	—	—	—	45	2 Fd.	—
			Traill.....	43.4	—	—	—	—	43	3 Fd.	—
			Vantmore.....	45.2	—	—	—	—	44	2 Fd.	—
			Vantage.....	49.4	—	—	—	—	43	2 Fd.	—

Necessary difference—6.1 bushels. Rainfall record incomplete.

RODNEY A. MURPHY, NEVILLE											
2C.....	5	3	Husky.....	46.0	—	—	—	—	48	1 Fd.	—
			Parkland.....	37.9	—	—	—	—	47	3 C.W. 6 R.	—
			Traill.....	32.2	—	—	—	—	46	1 Fd.	—
			Vantmore.....	32.5	—	—	—	—	46	1 Fd.	—
			Vantage.....	35.5	—	—	—	—	46	1 Fd.	—

Necessary difference—5.0 bushels. Rainfall—May to August 4.83 inches.

SHERMAN LYNGSTAD, NEIDPATH											
1A.....	5	4	Husky.....	—	77	24	4.0	2.0	49	1 Fd.	—
			Parkland.....	—	79	23	2.0	3.0	50	1 C.W. 6 R.	—
			Traill.....	—	79	23	4.0	3.0	50	1 Fd.	—
			Vantmore.....	—	84	24	2.0	1.0	47	1 Fd.	—
			Vantage.....	—	82	24	1.0	1.0	47	1 Fd.	—

Test damaged by wind and animals—yields not reliable. Rainfall—May to August 4.14 inches.

TERRY H. SHILLINGTON, GRAYBURN											
2B.....	5	7	Husky.....	34.3	—	—	—	—	46	1 Fd.	—
			Parkland.....	29.3	—	—	—	—	47	3 C.W. 6 R.	—
			Traill.....	30.0	—	—	—	—	47	1 Fd.	—
			Vantmore.....	27.4	—	—	—	—	46	1 Fd.	—
			Vantage.....	34.2	—	—	—	—	46	1 Fd.	—

No significant grain yield difference between varieties. Rainfall record incomplete.

EILEEN E. WILKINSON, MARQUIS											
2B.....	5	8	Husky.....	56.0	—	24	1.0	2.0	50	1 Fd.	—
			Parkland.....	44.7	—	26	1.0	1.0	51	1 C.W. 6 R.	—
			Traill.....	50.1	—	26	1.0	1.0	49	1 Fd.	—
			Vantmore.....	50.5	—	26	1.0	1.0	46	1 Fd.	—
			Vantage.....	56.7	—	26	1.0	1.0	47	1 Fd.	—

Necessary difference—4.2 bushels. Rainfall—May to August 4.87 inches.

ROBERT G. GLEIM, UREN											
1A.....	5	9	Husky.....	71.8	92	29	1.0	2.0	46	1 Fd.	—
			Parkland.....	54.9	90	36	1.0	3.0	49	3 C.W. 6 R.	W.
			Traill.....	59.3	90	31	1.0	3.0	46	1 Fd.	—
			Vantmore.....	57.8	90	32	1.0	1.0	46	1 Fd.	—
			Vantage.....	58.3	92	30	1.0	2.0	47	1 Fd.	—

Necessary difference—4.8 bushels. Rainfall—May to August 5.23 inches.

Wheat Pool District 5—Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seeded to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
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ELDO M. SCHMIDT, ERNFOLD

1A.....	5	10	Husky.....	42.7	—	26	—	—	52	1 Fd.	—
			Parkland.....	35.7	—	24	—	—	52	1 C.W. 6 R.	—
			Trail.....	39.3	—	22	—	—	51	1 Fd.	—
			Vantmore.....	39.5	—	22	—	—	50	1 Fd.	—
			Vantage.....	39.3	—	22	—	—	49	1 Fd.	—

Necessary difference—3.6 bushels. Rainfall record incomplete.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

1A.....	5	2	Billy Costley, Bateman.
1A.....	5	5	Eddy C. Tejszerski, Kelstern.

WHEAT POOL DISTRICT 6

DENNIS R. WAGNER, FRANCIS

2A.....	6	2	Husky.....	38.7	91	20	3.3	1.0	44	2 Fd.	—
			Parkland.....	28.5	88	20	4.0	2.0	45	2 Fd.	—
			Trail.....	31.9	85	20	3.8	1.3	46	1 Fd.	—
			Vantmore.....	26.2	87	20	2.0	1.0	44	2 Fd.	—
			Montcalm.....	23.9	90	21	4.3	2.0	46	3 C.W. 6 R.	—

Necessary difference—3.7 bushels. Rainfall—May to August 4.05 inches.

GEORGE L. MANN, DUMMER

2A.....	6	3	Husky.....	34.3	75	24	1.3	1.0	43	2 Fd.	—
			Parkland.....	27.5	75	24	1.3	1.8	45	2 Fd.	—
			Trail.....	28.3	74	23	1.3	1.5	43	2 Fd.	—
			Vantmore.....	30.6	75	22	1.0	1.0	45	2 Fd.	—
			Montcalm.....	28.1	74	26	1.3	1.3	45	2 Fd.	—

Necessary difference—3.4 bushels. Rainfall—May to August 4.36 inches.

DONNALEEN M. MACHMER, BAYARD

1A.....	6	4	Husky.....	70.5	—	32	1.0	2.0	48	1 Fd.	—
			Parkland.....	69.3	—	35	1.3	2.3	50	1 C.W. 6 R.	—
			Trail.....	64.7	—	33	1.5	2.5	48	1 Fd.	—
			Vantmore.....	58.6	—	32	1.0	1.0	49	1 Fd.	—
			Vantage.....	71.0	—	34	1.0	1.0	49	1 Fd.	—

Necessary difference—6.0 bushels. Rainfall record incomplete.

ROSS G. RAMAGE, CRESTWYND

1A.....	6	5	Husky.....	45.7	—	—	—	—	46	1 Fd.	—
			Parkland.....	40.3	—	—	—	—	46	3 C.W. 6 R.	—
			Trail.....	42.6	—	—	—	—	44	2 Fd.	—
			Vantmore.....	48.0	—	—	—	—	44	2 Fd.	—
			Vantage.....	54.1	—	—	—	—	45	2 Fd.	—

Necessary difference—6.1 bushels. Rainfall—May to August 4.29 inches.

CARL A. N. SCHUETTE, PENSE

2E.....	6	6	Husky.....	34.2	—	—	—	—	45	2 Fd.	—
			Parkland.....	29.7	—	—	—	—	45	2 Fd.	—
			Trail.....	40.0	—	—	—	—	45	2 Fd.	—
			Vantmore.....	30.0	—	—	—	—	42	3 Fd.	—
			Montcalm.....	24.3	—	—	—	—	43	2 Fd.	—

Necessary difference—7.4 bushels. Rainfall record incomplete.

JACKIE LEIBEL, BALGONIE

2E.....	6	7	Husky.....	33.7	90	21	2.5	2.5	46	1 Fd.	—
			Parkland.....	29.1	86	22	3.0	3.0	46	3 C.W. 6 R.	—
			Trail.....	25.4	85	21	2.3	3.0	44	2 Fd.	—
			Vantmore.....	27.7	86	22	1.0	1.0	47	1 Fd.	—
			Montcalm.....	26.1	87	24	2.8	2.0	46	3 C.W. 6 R.	—

Necessary difference—4.7 bushels. Rainfall—May to August 2.10 inches.

RONALD M. PRIOR, INDIAN HEAD

3C.....	6	8	Husky.....	44.1	—	24	1.0	1.0	49	1 Fd.	—
			Parkland.....	40.0	—	30	1.0	1.0	50	1 C.W. 6 R.	—
			Trail.....	40.6	—	18	1.0	3.0	47	1 Fd.	—
			Vantmore.....	36.3	—	36	3.0	2.0	47	1 Fd.	—
			Montcalm.....	38.0	—	30	2.0	2.0	49	2 C.W. 6 R.	—

Necessary difference—4.7 bushels. Rainfall record incomplete.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

2E.....	6	5	Kenneth F. McKenzie, Belbeck.
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WHEAT POOL DISTRICT 7

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seedling to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ROBERT W. CLARK, FLEMING											
3B.....	7	2	Husky.....	53.1	83	31	8.0	2.0	42	3 Fd.	—
			Parkland.....	48.7	84	31	8.0	2.0	45	2 Fd.	—
			Trail.....	46.1	82	31	8.0	2.0	43	3 Fd.	—
			Vantmore.....	44.8	83	29	8.0	2.0	42	3 Fd.	—
			Montcalm.....	43.2	85	34	8.0	2.0	42	3 Fd.	—

Necessary difference—4.3 bushels. Rainfall—May to August 11.45 inches.

BARRIE A. WILSON, WAWOTA

3A.....	7	3	Husky.....	48.2	99	31	1.0	1.0	45	2 Fd.	—
			Parkland.....	41.0	94	34	1.0	2.0	46	3 C.W. 6 R.	—
			Trail.....	37.7	94	29	1.0	2.0	44	2 Fd.	—
			Vantmore.....	36.1	94	32	1.0	3.0	45	2 Fd.	—
			Montcalm.....	31.4	91	30	1.0	2.0	45	2 Fd.	—

Necessary difference—3.5 bushels. Rainfall—May to August 10.42 inches.

DONALD and ROSS CLARK, INCHKEITH

3A.....	7	4	Husky.....	—	—	—	—	—	—	—	—
			Parkland.....	32.5	—	—	—	—	48	2 C.W. 6 R.	—
			Trail.....	33.3	—	—	—	—	47	1 Fd.	—
			Vantmore.....	—	—	—	—	—	—	—	—
			Montcalm.....	—	—	—	—	—	—	—	—

Husky, Vantmore, Montcalm destroyed by hail—not included in zone summary. Rainfall—May to August 9.71 inches.

RICHARD S. SENFT, HANDSWORTH

2A.....	7	5	Husky.....	62.7	89	35	2.3	3.0	46	1 Fd.	—
			Parkland.....	58.5	88	38	2.0	2.3	46	3 C.W. 6 R.	—
			Trail.....	57.0	88	39	2.0	1.5	46	1 Fd.	—
			Vantmore.....	48.3	89	35	1.3	1.3	45	2 Fd.	—
			Montcalm.....	57.7	88	37	1.0	2.0	46	3 C.W. 6 R.	—

No significant grain yield difference between varieties. Rainfall record incomplete.

HENRY J. DONAUER, KENDAL

2A.....	7	6	Husky.....	67.9	—	44	—	—	46	1 Fd.	—
			Parkland.....	51.2	—	45	—	—	48	2 C.W. 6 R.	—
			Trail.....	52.1	—	45	—	—	45	2 Fd.	—
			Vantmore.....	53.8	—	45	—	—	45	2 Fd.	—
			Montcalm.....	52.0	—	46	—	—	47	3 C.W. 6 R.	—

Necessary difference—8.8 bushels. Rainfall record incomplete.

EDWARD L. HEXTALL, WOLSELEY

3A.....	7	7	Husky.....	45.0	85	24	2.5	2.0	43	2 Fd.	—
			Parkland.....	44.1	85	26	2.5	2.0	44	2 Fd.	—
			Trail.....	39.3	86	26	3.3	2.3	40	3 Fd.	—
			Vantmore.....	38.7	86	24	1.3	1.0	42	3 Fd.	—
			Montcalm.....	47.9	85	28	2.3	2.0	44	2 Fd.	—

No significant grain yield difference between varieties. Rainfall—May to August 5.82 inches.

W. DONALD MURDOCK, SPY HILL

3B.....	7	9	Husky.....	43.5	103	27	2.3	1.5	44	2 Fd.	—
			Parkland.....	33.7	100	25	1.0	2.8	45	2 Fd.	—
			Trail.....	32.2	99	26	2.3	2.3	45	2 Fd.	—
			Vantmore.....	33.3	102	26	1.0	1.0	43	3 Fd.	—
			Montcalm.....	28.9	103	30	3.0	2.0	45	2 Fd.	—

Necessary difference—2.8 bushels. Rainfall—May to August 7.40 inches.

MORGAN N. ANDERSON, ATWATER

3C.....	7	10	Husky.....	56.8	—	27	1.0	1.0	46	1 Fd.	—
			Parkland.....	43.6	—	27	1.0	1.3	48	2 C.W. 6 R.	—
			Trail.....	42.8	—	27	1.0	2.0	46	1 Fd.	—
			Vantmore.....	38.2	—	25	1.0	1.0	43	2 Fd.	—
			Montcalm.....	40.6	—	30	1.0	1.0	47	3 C.W. 6 R.	—

Necessary difference—6.8 bushels. Rainfall—May to August 8.41 inches.

CHARLOTTE A. MERCER, LEMBERG

3C.....	7	11	Husky.....	67.2	92	29	2.0	1.5	48	1 Fd.	—
			Parkland.....	56.9	93	33	2.0	2.0	48	3 C.W. 6 R.	W.
			Trail.....	58.8	93	34	4.0	2.5	47	1 Fd.	—
			Vantmore.....	50.2	94	30	1.0	1.0	45	2 Fd.	—
			Montcalm.....	59.6	91	34	5.0	2.5	47	3 C.W. 6 R.	—

Necessary difference—4.4 bushels. Rainfall record incomplete.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3C..... 7 8 Marvin Kay, Whitewood.

WHEAT POOL DISTRICT 8

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bush. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
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MURRAY WAGNER, MacNUTT

3B.....	8	1	Husky.....	64.5	79	25	1.5	1.3	50	1 Fd.	—
			Parkland.....	54.6	78	26	1.5	1.5	51	2 C.W. 6 R.	W.
			Trail.....	55.1	78	24	1.3	1.0	50	1 Fd.	—
			Vantmore.....	52.9	79	27	1.5	1.8	47	1 Fd.	—
			Montcalm.....	55.7	78	31	1.8	1.3	51	2 C.W. 6.R	W.

Necessary difference—7.4 bushels. Rainfall—May to August 6.66 inches.

BRUCE D. KNOLL, YORKTON

3C.....	8	4	Husky.....	61.7	97	35	2.0	1.5	44	2 Fd.	—
			Parkland.....	53.9	94	38	2.3	1.5	45	2 Fd.	—
			Trail.....	51.7	96	36	2.8	1.5	43	2 Fd.	—
			Vantmore.....	45.8	97	35	1.0	1.0	43	2 Fd.	—
			Montcalm.....	48.8	94	40	2.3	2.0	45	2 Fd.	—

Necessary difference—6.7 bushels. Rainfall—May to August 7.28 inches.

NORMAN W. MONICH, MIKADO

3B.....	8	5	Husky.....	86.1	97	38	3.0	2.0	48	1 Fd.	—
			Parkland.....	79.1	93	40	3.0	2.0	50	2 C.W. 6 R.	W.
			Trail.....	76.7	93	38	2.0	2.0	49	1 Fd.	—
			Vantmore.....	65.5	94	39	1.5	1.0	48	1 Fd.	—
			Montcalm.....	68.8	94	39	2.8	2.0	48	2 C.W. 6 R.	—

Necessary difference—5.9 bushels. Rainfall—May to August 8.41 inches.

JERRY D. PASLOSKI, RAMA

3B.....	8	7	Husky.....	70.9	97	32	1.3	1.0	46	1 Fd.	—
			Parkland.....	52.5	99	32	1.0	1.3	47	3 C.W. 6 R.	—
			Trail.....	51.4	96	30	1.3	1.5	45	2 Fd.	—
			Vantmore.....	49.7	96	30	1.0	1.0	45	2 Fd.	—
			Montcalm.....	49.1	97	35	1.3	1.3	46	3 C.W. 6 R.	—

Necessary difference—4.1 bushels. Rainfall—May to August 5.32 inches.

WAYNE G. LOWE, HINCHLIFFE

4A.....	8	8	Husky.....	33.9	—	—	—	—	46	1 Fd.	—
			Parkland.....	29.1	—	—	—	—	47	3 C.W. 6 R.	—
			Trail.....	31.1	—	—	—	—	45	2 Fd.	—
			Vantmore.....	36.8	—	—	—	—	45	2 Fd.	—
			Montcalm.....	28.9	—	—	—	—	46	3 C.W. 6 R.	—

No significant grain yield difference between varieties. Rainfall record incomplete.

CALVIN G. JOHNSON, NORQUAY

3B.....	8	9	Husky.....	75.6	—	35	1.5	1.0	47	1 Fd.	—
			Parkland.....	48.3	—	35	1.8	1.0	47	3 C.W. 6 R.	—
			Trail.....	63.9	—	35	1.3	2.0	47	1 Fd.	—
			Vantmore.....	58.2	—	34	1.0	1.0	45	2 Fd.	—
			Montcalm.....	54.6	—	39	5.3	2.0	47	3 C.W. 6 R.	—

Necessary difference—6.2 bushels. Rainfall—May to August 10.51 inches.

OREST SYCH, ARRAN

4A.....	8	10	Husky.....	62.0	87	26	1.0	2.0	46	1 Fd.	—
			Parkland.....	54.5	85	29	2.0	2.0	47	3 C.W. 6 R.	—
			Trail.....	56.5	83	30	4.0	2.0	46	1 Fd.	—
			Vantmore.....	50.1	85	28	1.0	1.0	44	2 Fd.	—
			Montcalm.....	51.3	85	28	2.0	2.0	46	3 C.W. 6 R.	—

Necessary difference—6.0 bushels. Rainfall—May to August 6.56 inches.

DONALD J. RURAK, ERWOOD

3F.....	8	11	Husky.....	84.8	—	36	1.8	3.0	47	1 Fd.	—
			Parkland.....	78.6	—	36	3.3	2.5	48	2 C.W. 6 R.	—
			Trail.....	75.6	—	36	2.0	2.8	49	1 Fd.	—
			Vantmore.....	72.3	—	36	1.0	1.3	46	1 Fd.	—
			Montcalm.....	80.4	—	36	3.0	2.0	47	3 C.W. 6 R.	—

No significant grain yield difference between varieties. Rainfall—May to August 11.95 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3B..... 8 2 James Kelly, Saltcoats.

3C..... 8 6 Paul Prokopuk Jr., Burgis.

3B..... 8 9 Byron D. Ham, Norquay.

WHEAT POOL DISTRICT 9

JOHN F. HEGGIE, LEROSS

3C.....	9	3	Husky.....	45.9	105	27	1.8	1.5	47	1 Fd.	—
			Parkland.....	32.9	98	27	1.0	2.0	49	2 C.W. 6 R.	—
			Trail.....	33.0	99	27	1.0	1.8	47	1 Fd.	—
			Vantmore.....	30.8	98	26	1.3	1.0	45	2 Fd.	—
			Montcalm.....	29.1	105	30	1.5	1.3	47	3 C.W. 6 R.	—

Necessary difference—3.9 bushels. Rainfall—May to August 7.77 inches.

Wheat Pool District 9—Continued

Cereal Variety Zone	Sub- Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
GORDON G. GWILLIM, DUVAL											
2B.....	9	5	Husky.....	44.3	89	20	2.0	2.3	50	1 Fd.	—
			Parkland.....	37.8	88	20	2.0	3.0	51	1 C.W. 6 R.	—
			Trail.....	36.4	86	19	2.0	3.0	48	1 Fd.	—
			Vantmore.....	35.8	87	20	2.0	1.0	48	1 Fd.	—
			Vantage.....	42.7	90	21	2.0	2.0	49	1 Fd.	—

Necessary difference—3.4 bushels. Rainfall—May to August 6.13 inches.

HARVEY A. ROCKEL, LANIGAN											
2B.....	9	6	Husky.....	44.8	88	28	2.8	2.3	43	2 Fd.	—
			Parkland.....	33.6	87	28	2.8	2.0	46	3 C.W. 6 R.	—
			Trail.....	33.9	88	26	2.3	2.5	45	2 Fd.	—
			Vantmore.....	34.2	88	26	1.0	1.0	43	2 Fd.	—
			Vantage.....	29.8	87	25	2.0	1.0	44	2 Fd.	—

Necessary difference—3.9 bushels. Rainfall—May to August 6.51 inches.

RONNIE DE YONG, PUNNICHY											
3C.....	9	7	Husky.....	59.5	90	30	3.0	2.0	58	1 Fd.	—
			Parkland.....	47.6	85	34	3.0	2.0	49	2 C.W. 6 R.	—
			Trail.....	48.7	84	30	2.0	2.0	47	1 Fd.	—
			Vantmore.....	45.2	89	30	1.0	1.0	46	1 Fd.	—
			Montcalm.....	45.5	86	36	4.0	2.0	47	3 C.W. 6 R.	—

Necessary difference—7.1 bushels. Rainfall—May to August 7.91 inches.

DAVID C. HAMILTON, LEROY											
3D.....	9	8	Husky.....	49.9	89	32	3.8	2.3	44	2 Fd.	—
			Parkland.....	45.1	87	33	3.5	2.3	49	2 C.W. 6 R.	—
			Trail.....	38.3	87	28	3.0	2.5	44	2 Fd.	—
			Vantmore.....	39.5	89	32	3.0	1.3	44	2 Fd.	—
			Montcalm.....	35.6	88	35	2.8	1.3	46	3 C.W. 6 R.	—

Necessary difference—4.9 bushels. Rainfall—May to August 6.31 inches.

EDITH M. JOHNSTON, KANDAHAR											
2B.....	9	8	Husky.....	67.5	78	25	2.0	1.8	48	1 Fd.	—
			Parkland.....	54.2	74	30	2.3	2.8	51	1 C.W. 6 R.	—
			Trail.....	61.0	74	26	3.5	2.8	48	1 Fd.	—
			Vantmore.....	57.3	76	29	1.3	1.3	47	1 Fd.	—
			Vantage.....	53.3	79	28	1.5	1.0	46	1 Fd.	—

Necessary difference—8.6 bushels. Rainfall—May to August 4.11 inches.

JANET M. VIRGIN, FOAM LAKE											
3C.....	9	9	Husky.....	44.2	83	26	4.8	3.0	48	1 Fd.	—
			Parkland.....	29.6	84	27	6.0	2.0	49	2 C.W. 6 R.	—
			Trail.....	34.8	83	23	5.8	2.0	47	1 Fd.	—
			Vantmore.....	31.6	84	23	4.3	3.0	46	1 Fd.	—
			Montcalm.....	31.6	83	28	8.5	1.0	49	2 C.W. 6 R.	—

Necessary difference—3.7 bushels. Rainfall—May to August 6.18 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes
3C..... 9 1 Gerald Tkatch, Jasmin.

WHEAT POOL DISTRICT 10

RONALD D. RUSSELL, LUCKY LAKE											
1A.....	10	3	Husky.....	45.6	70	—	—	2.0	47	1 Fd.	—
			Parkland.....	56.6	71	—	—	1.0	47	3 C.W. 6 R.	—
			Trail.....	54.2	71	—	—	1.0	46	1 Fd.	—
			Vantmore.....	49.1	71	—	—	3.0	44	2 Fd.	—
			Vantage.....	53.0	71	—	—	1.0	45	2 Fd.	—

No significant grain yield difference between varieties. Rainfall record incomplete.

MERVIN M. BARR, MILDEN											
2D.....	10	4	Husky.....	44.3	92	15	1.0	1.3	46	1 Fd.	—
			Parkland.....	36.8	92	15	1.0	1.0	47	3 C.W. 6 R.	—
			Trail.....	32.7	90	15	1.0	2.0	46	1 Fd.	—
			Vantmore.....	34.9	91	16	1.0	1.3	44	2 Fd.	—
			Vantage.....	35.8	92	15	1.0	2.0	44	2 Fd.	—

Necessary difference—4.9 bushels. Rainfall—May to August 5.23 inches.

ALLYN K. LANGAGER, STRONGFIELD											
2D.....	10	6	Husky.....	24.4	—	—	—	—	43	2 Fd.	—
			Parkland.....	20.2	—	—	—	—	46	3 C.W. 6 R.	—
			Trail.....	21.7	—	—	—	—	43	2 Fd.	—
			Vantmore.....	19.7	—	—	—	—	43	2 Fd.	—
			Vantage.....	23.2	—	—	—	—	43	2 Fd.	—

No significant grain yield difference between varieties. Rainfall record incomplete.

Wheat Pool District 10—Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seedling to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
EUGENE H. KEMP, DAVIDSON											
2B.....	10	7	Husky.....	48.9	87	27	2.0	2.0	47	1 Fd.	—
			Parkland.....	43.9	87	28	1.0	2.0	49	2 C.W. 6. R.	—
			Trail.....	40.3	85	24	2.0	2.0	47	1 Fd.	—
			Vantmore.....	38.8	87	24	1.0	1.0	45	2 Fd.	—
			Vantage.....	40.9	85	24	1.0	1.0	46	1 Fd.	—
Necessary difference—4.8 bushels.				Rainfall—May to August 4.90 inches.							
GAYLE G. PODOLESKI, KENASTON											
2B.....	10	9	Husky.....	74.9	—	32	1.8	2.0	47	1 Fd.	—
			Parkland.....	79.8	—	32	1.5	3.0	48	2 C.W. 6 R.	—
			Trail.....	85.3	—	32	1.8	3.0	47	1 Fd.	—
			Vantmore.....	71.0	—	32	2.0	2.0	47	1 Fd.	—
			Vantage.....	85.0	—	32	2.0	2.0	47	1 Fd.	—
No significant grain yield difference between varieties.				Rainfall—May to August 6.14 inches.							
EDWARD G. CLARK, DELISLE											
2D.....	10	10	Husky.....	28.3	86	19	1.0	3.0	47	1 Fd.	—
			Parkland.....	23.5	86	19	1.0	3.0	48	2 C.W. 6 R.	—
			Trail.....	18.4	88	18	1.0	3.0	47	1 Fd.	—
			Vantmore.....	17.9	86	20	1.0	2.0	45	2 Fd.	—
			Vantage.....	19.1	86	22	1.0	3.0	46	1 Fd.	—
Necessary difference—3.7 bushels.				Rainfall—May to August 4.76 inches.							

WHEAT POOL DISTRICT 11

AUDREY H. WALLACE, TYNER											
1D.....	11	1	Husky.....	46.6	—	31	1.0	2.8	49	1 Fd.	—
			Parkland.....	33.6	—	31	1.0	2.3	51	1 C.W. 6 R.	—
			Trail.....	52.4	—	31	1.0	2.0	50	1 Fd.	—
			Vantmore.....	55.1	—	31	1.0	1.8	48	1 Fd.	—
			Vantage.....	50.3	—	31	1.0	1.0	49	1 Fd.	—
Necessary difference—8.9 bushels.				Rainfall—May to August 5.05 inches.							
GRANT M. HENRY, LAPORTE											
1D.....	11	4	Husky.....	69.4	102	34	2.0	2.0	51	1 Fd.	—
			Parkland.....	56.4	102	36	2.3	3.0	51	1 C.W. 6 R.	—
			Trail.....	60.9	102	34	1.8	3.0	51	1 Fd.	—
			Vantmore.....	46.4	102	36	1.8	1.0	50	1 Fd.	—
			Vantage.....	60.5	102	36	2.5	1.3	51	1 Fd.	—
Necessary difference—9.4 bushels.				Rainfall—May to August 4.37 inches.							
KENNETH E. WEISBROD, MARENGO											
1D.....	11	5	Husky.....	41.2	—	—	—	—	50	1 Fd.	—
			Parkland.....	26.7	—	—	—	—	51	1 C.W. 6 R.	—
			Trail.....	31.3	—	—	—	—	49	1 Fd.	—
			Vantmore.....	39.2	—	—	—	—	48	1 Fd.	—
			Vantage.....	38.7	—	—	—	—	49	1 Fd.	—
Necessary difference—7.5 bushels.				Rainfall—May to August 5.14 inches.							
MARLENE and LILLIAN JONES, NETHERHILL											
1D.....	11	6	Husky.....	51.3	—	—	—	—	49	1 Fd.	—
			Parkland.....	30.5	—	—	—	—	51	2 C.W. 6 R.	W.
			Trail.....	35.6	—	—	—	—	48	1 Fd.	—
			Vantmore.....	39.6	—	—	—	—	46	1 Fd.	—
			Vantage.....	41.1	—	—	—	—	48	1 Fd.	—
Necessary difference—6.6 bushels.				Rainfall—May to August 4.34 inches.							
WILLIAM A. BARKER, ROSETOWN											
1D.....	11	7	Husky.....	59.5	106	23	—	—	49	1 Fd.	—
			Parkland.....	45.9	109	22	—	—	50	2 C.W. 6 R.	W.
			Trail.....	50.3	107	18	—	—	46	1 Fd.	—
			Vantmore.....	53.5	108	24	—	—	46	1 Fd.	—
			Vantage.....	66.1	108	24	—	—	48	1 Fd.	—
Necessary difference—13.4 bushels.				Rainfall—May to August 6.11 inches.							
VERNE W. ROBBIE, HERSCHEL											
2D.....	11	8	Husky.....	65.5	112	17	5.3	2.0	45	2 Fd.	—
			Parkland.....	47.9	111	17	4.3	2.0	45	2 Fd.	—
			Trail.....	46.0	111	14	5.0	2.0	45	2 Fd.	—
			Vantmore.....	46.7	112	16	2.5	1.0	44	2 Fd.	—
			Vantage.....	47.6	114	15	2.0	1.0	44	2 Fd.	—
Necessary difference—3.8 bushels.				Rainfall—May to August 5.20 inches.							

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

1D..... 11 9 J. Harold Groves, Beaufield.

WHEAT POOL DISTRICT 12

Cereal Variety Zone	Sub- Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
MADELINE SEIDL, BIGGAR											
2D.....	12	1	Husky.....	22.7	76	19	—	—	40	3 Fd.	—
			Parkland.....	23.5	76	19	—	—	42	3 Fd.	—
			Trail.....	19.9	76	20	—	—	41	3 Fd.	—
			Vantmore.....	15.2	76	18	—	—	42	3 Fd.	—
			Vantage.....	17.9	76	19	—	—	41	3 Fd.	—
Necessary difference—4.4 bushels.				Rainfall—May to August 6.10 inches.							
KENNETH GRYLLS, CANDO											
2D.....	12	2	Husky.....	17.1	—	25	1.0	2.0	45	2 Fd.	—
			Parkland.....	12.0	—	26	1.8	2.3	43	2 Fd.	—
			Trail.....	16.8	—	24	1.0	2.0	42	3 Fd.	—
			Vantmore.....	12.7	—	24	1.5	1.3	41	3 Fd.	—
			Vantage.....	15.0	—	25	1.5	2.0	42	3 Fd.	—
No significant grain yield difference between varieties.				Rainfall record incomplete.							
EDWIN SITTLLER, LANDIS											
2D.....	12	3	Husky.....	89.2	—	—	—	—	45	2 Fd.	—
			Parkland.....	82.8	—	—	—	—	48	2 C.W. 6 R.	—
			Trail.....	75.0	—	—	—	—	45	2 Fd.	—
			Vantmore.....	67.6	—	—	—	—	44	2 Fd.	—
			Vantage.....	82.4	—	—	—	—	44	2 Fd.	—
Necessary difference—13.1 bushels.				Rainfall—May to August 4.68 inches.							
MORLEY R. KENNEDY, LUSELAND											
2D.....	12	4	Husky.....	38.5	—	21	1.3	2.3	47	1 Fd.	—
			Parkland.....	34.5	—	23	1.0	2.5	47	3 C.W. 6 R.	—
			Trail.....	27.7	—	19	1.0	2.3	46	1 Fd.	—
			Vantmore.....	31.0	—	22	1.3	2.0	45	2 Fd.	—
			Vantage.....	33.5	—	23	1.3	2.3	45	2 Fd.	—
No significant grain yield difference between varieties.				Rainfall—May to August 6.51 inches.							
LAWRENCE L. MEIER, SALVADOR											
2D.....	12	5	Husky.....	33.4	116	20	2.5	1.5	48	1 Fd.	—
			Parkland.....	27.5	116	18	1.5	1.5	46	3 C.W. 6 R.	—
			Trail.....	24.3	114	18	1.8	1.8	42	3 Fd.	—
			Vantmore.....	26.5	117	17	1.3	1.0	42	3 Fd.	—
			Vantage.....	29.8	115	18	3.2	1.0	43	2 Fd.	—
Necessary difference—5.7 bushels.				Rainfall—May to August 6.08 inches.							
ALEXANDER J. STANG, PRIMATE											
2D.....	12	6	Husky.....	15.6	—	—	3.0	2.0	44	2 Fd.	—
			Parkland.....	10.8	—	—	4.0	2.3	43	2 Fd.	—
			Trail.....	10.7	—	—	3.0	2.0	41	3 Fd.	—
			Vantmore.....	13.3	—	—	2.8	1.8	43	2 Fd.	—
			Vantage.....	13.4	—	—	2.3	2.0	43	2 Fd.	—
Necessary difference—2.0 bushels.				Rainfall record incomplete.							
JAMES R. MARTIN, RUTLAND											
2D.....	12	7	Husky.....	41.5	111	26	8.0	1.0	45	2 Fd.	—
			Parkland.....	30.2	111	24	8.0	1.0	45	2 Fd.	—
			Trail.....	27.2	105	20	7.0	2.0	45	2 Fd.	—
			Vantmore.....	24.6	107	22	6.0	3.0	43	2 Fd.	—
			Vantage.....	28.8	111	24	8.0	1.0	44	2 Fd.	—
Necessary difference—4.2 bushels.				Rainfall—May to August 6.99 inches.							
ALAN POWERS, ARTLAND											
2D.....	12	8	Husky.....	65.6	104	33	2.0	2.0	48	1 Fd.	—
			Parkland.....	49.7	104	30	2.0	2.0	49	2 C.W. 6 R.	—
			Trail.....	49.0	103	30	3.0	2.0	46	1 Fd.	—
			Vantmore.....	56.1	103	30	2.0	1.0	45	2 Fd.	—
			Vantage.....	53.7	103	32	3.0	1.0	46	1 Fd.	—
Necessary difference—6.8 bushels.				Rainfall—May to August 8.50 inches.							
H. GRANT McLEAN, PHIPPEN											
2D.....	12	9	Husky.....	20.8	118	13	3.5	2.8	49	1 Fd.	—
			Parkland.....	15.4	117	16	2.5	2.5	47	1 Fd.	—
			Trail.....	14.0	116	14	1.8	2.8	45	2 Fd.	—
			Vantmore.....	13.6	118	14	4.3	2.3	43	2 Fd.	—
			Vantage.....	16.0	119	12	3.0	2.3	44	2 Fd.	—
Necessary difference—2.3 bushels.				Rainfall—May to August 6.93 inches.							
DOUGLAS W. BULLERWELL, CUTKNIFE											
3E.....	12	9	Husky.....	31.5	112	20	1.0	2.0	45	2 Fd.	—
			Parkland.....	28.9	103	19	1.0	2.0	47	1 Fd.	—
			Trail.....	29.6	96	17	1.0	2.0	46	1 Fd.	—
			Vantmore.....	24.2	98	18	1.0	1.3	45	2 Fd.	—
			Montcalm.....	13.3	107	20	1.0	2.8	45	2 Fd.	—
Necessary difference—6.8 bushels.				Rainfall—May to August 7.26 inches.							

Wheat Pool District 12—Continued

WHEAT POOL DISTRICT 13

H. HARRY FRIESEN, OSLER											
2D.....	13	5	Husky.....	12.9	106	15	1.0	2.8	46	1 Fd.	—
			Parkland.....	11.8	104	18	1.0	1.8	46	3 C.W. 6 R.	—
			Traill.....	13.2	104	17	1.0	2.3	45	2 Fd.	—
			Vantmore.....	11.4	105	15	1.0	1.5	45	2 Fd.	—
			Vantage.....	13.3	105	13	1.0	1.8	45	2 Fd.	—

No significant grain yield difference between varieties. Rainfall—May to August 7.80 inches.

GARY R. DENNIS, PERDUE								
2D.....	13	7	Husky.....	—	82	25	2.3	1.5
			Parkland.....	—	83	25	1.8	1.5
			Trail.....	—	83	24	1.5	1.5
			Vantmore.....	—	81	24	1.0	1.0
			Vantage.....	—	81	25	1.5	1.0

Test damaged by birds—yields not reliable. Rainfall—May to August 7.82 inches.

BERNARD HENDRIKS, LEOFNARD								
3D.....	13	9 Husky.....	42.7	—	25	1.0	2.5	44
		Parkland.....	34.0	—	25	4.0	1.0	46
		Trail.....	36.0	—	27	2.0	2.0	44
		Vantmore.....	33.2	—	25	2.0	2.0	44
		Montcalm.....	34.2	—	25	3.0	2.3	45

Necessary difference—5.9 bushels. Rainfall record incomplete.

RENE A. REYNAUD, REYNAUD											
3D.....	13	10	Husky.....	21.2	—	—	—	—	50	1 Fd.	—
			Parkland.....	12.8	—	—	—	—	50	1 Fd.	F.
			Trail.....	12.7	—	—	—	—	48	1 Fd.	—
			Vantmore.....	12.2	—	—	—	—	49	1 Fd.	—
			Montcalm.....	15.5	—	—	—	—	50	1 Fd.	—

Montcalm..... 15.5 — — —
 Necessary difference—3.8 bushels Rainfall—May to August 7.50 inches

ALFRED NIENABER, ST. GREGOR											
3D.....	13	11	Husky.....	67.8	92	36	3.0	2.0	48	1 Fd.	—
			Parkland.....	63.0	89	37	3.0	2.0	50	1 C.W. 6 R.	—
			Traill.....	64.1	91	36	2.0	2.0	48	1 Fd.	—
			Vantmore.....	51.2	90	34	1.0	1.0	48	1 Fd.	—
			Martaskey.....	51.7	92	27	2.0	2.0	48	2 C.W. 6 R.	—

Montcalm..... 51.7 92 37 2.0
 Necessary difference—3.1 bushels. Rainfall—May to August 432 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3D..... 13 1 David Smith, Leroy.

3D..... 13 1 David Smith, Eelroy.
2D..... 13 3 Vernon K. Lindberg, Dundurn.

2B..... 13 4 F. Joesph Eley, Colonsay.

2B..... 13 8 John A. Buhler, Aberdeen.

WHEAT POOL DISTRICT 14

ELMER R. McLEOD, LINTLAW											
4A.....	14	1	Husky.....	18.4	116	13	5.3	2.5	43	2 Fd.	—
			Parkland.....	20.3	115	13	5.8	3.0	46	3 C.W. 6 R.	—
			Trail.....	17.0	114	11	5.8	2.5	44	2 Fd.	—
			Vantmore.....	16.3	115	14	3.8	1.8	43	2 Fd.	—
			Montcalm.....	22.4	117	17	2.3	2.3	44	2 Fd.	—

No significant grain yield difference between varieties. Rainfall—May to August 6.62 inches.

JOHN W. WIEBENSOHN, CLAIR											
3D.....	14	2	Husky.....	104.6	93	37	5.3	3.0	48	1 Fd.	—
			Parkland.....	86.2	92	40	4.3	2.5	49	2 C.W. 6 R.	—
			Trail.....	99.8	91	35	4.0	2.8	49	1 Fd.	—
			Vantmore.....	77.8	94	36	1.0	1.0	47	1 Fd.	—
			Montcalm.....	82.6	92	41	5.5	3.0	48	2 C.W. 6 R.	—

Montcalm..... 82.6 92 41 5.5
 Necessary difference—7.5 bushels. Rainfall—May to August 7.48 inches.

WILLIAM E. GLASSPELL, LAC VERT											
3D.....	14	3	Husky.....	52.2	79	22	1.8	1.0	46	1 Fd.	—
			Parkland.....	41.7	77	21	1.5	1.0	48	3 C.W. 6 R.	D.
			Trail.....	38.1	80	23	1.3	1.0	47	1 Fd.	—
			Vantmore.....	44.6	78	20	2.5	1.3	45	2 Fd.	—
			Martasky.....	29.6	77	20	2.0	1.0	46	2 C.W. 6 R.	—

Montcalm..... 39.6 77 20
 Necessary difference—5.4 bushels Rainfall record incomplete

Wheat Pool District 14—Continued

Cereal Variety Zone	Sub-Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
RAYMOND D. HANSON, ROSE VALLEY											
3D.....	14	4	Husky.....	64.3	88	35	2.0	1.0	52	1 Fd.	—
			Parkland.....	51.8	81	40	3.0	1.0	53	1 C.W. 6 R.	—
			Trail.....	50.2	84	30	1.0	1.0	52	1 Fd.	—
			Vantmore.....	48.6	83	25	1.0	1.0	50	1 Fd.	—
			Montcalm.....	48.4	90	45	2.0	2.0	52	1 C.W. 6 R.	—

Samples bulked—yields not included in zone summary. Rainfall—May to August 6.75 inches.

LIONEL R. P. AASEN, NORA											
3D.....	14	4	Husky.....	48.3	90	26	3.0	2.0	47	1 Fd.	—
			Parkland.....	44.0	91	30	3.0	3.0	49	2 C.W. 6 R.	—
			Trail.....	43.5	84	26	2.0	2.0	48	1 Fd.	—
			Vantmore.....	40.7	85	30	1.0	1.0	46	1 Fd.	—
			Montcalm.....	46.9	87	32	4.0	2.0	47	3 C.W. 6 R.	—

No significant grain yield difference between varieties. Rainfall record incomplete

FAY LOUGHEED, NOBLEVILLE											
4A.....	14	5	Husky.....	22.3	—	32	2.3	1.0	31	3 Fd.	—
			Parkland.....	16.8	—	30	1.3	1.0	36	3 Fd.	—
			Trail.....	20.6	—	29	1.0	1.0	40	3 Fd.	—
			Vantmore.....	17.7	—	30	1.0	1.0	36	3 Fd.	—
			Montcalm.....	11.5	—	31	1.5	1.0	31	3 Fd.	—

Necessary difference—3.4 bushels. Rainfall—May to August 7.35 inches.

GARRY A. REED, CARRAGANA											
3F.....	14	6	Husky.....	75.4	—	28	2.8	2.5	45	2 Fd.	—
			Parkland.....	69.6	—	33	3.3	2.8	48	2 C.W. 6 R.	W.
			Trail.....	70.1	—	27	4.3	2.5	48	1 Fd.	—
			Vantmore.....	59.9	—	28	1.0	1.0	46	1 Fd.	—
			Montcalm.....	66.8	—	35	3.8	2.3	48	2 C.W. 6 R.	—

Necessary difference—7.9 bushels. Rainfall—May to August 6.95 inches.

JACK A. HANKINS, VALPARAISO											
3F.....	14	7	Husky.....	89.6	85	30	2.0	2.0	51	1 Fd.	—
			Parkland.....	85.3	84	36	1.0	3.0	52	2 C.W. 6 R.	W.
			Trail.....	79.6	88	34	2.0	3.0	50	1 Fd.	—
			Vantmore.....	74.7	88	31	1.0	1.0	48	1 Fd.	—
			Montcalm.....	84.8	88	35	2.0	2.0	51	2 C.W. 6 R.	W.

Necessary difference—7.9 bushels. Rainfall—May to August 6.48 inches.

MICHAEL H. STASIUK, RESOURCE											
3F.....	14	8	Husky.....	71.9	—	29	—	1.5	51	1 Fd.	—
			Parkland.....	58.8	—	30	—	2.5	51	2 C.W. 6 R.	W.
			Trail.....	59.2	—	28	—	2.3	49	1 Fd.	—
			Vantmore.....	65.1	—	29	—	1.0	46	1 Fd.	—
			Montcalm.....	56.6	—	31	—	2.5	50	2 C.W. 6 R.	W.

No significant grain yield difference between varieties. Rainfall—May to August 6.12 inches.

ARCHIE W. CHILDS, BROOKSBY											
3D.....	14	9	Husky.....	113.2	89	39	2.5	2.0	47	1 Fd..	—
			Parkland.....	101.1	85	46	2.0	2.0	49	2 C.W. 6 R.	—
			Trail.....	102.4	85	37	2.5	2.0	47	1 Fd.	—
			Vantmore.....	86.0	85	40	1.0	1.8	46	1 Fd.	—
			Montcalm.....	91.5	89	44	3.3	2.0	46	3 C.W. 6 R.	—

Necessary difference—8.2 bushels. Rainfall—May to August 10.08 inches.

CYRILLE CHABOT, ZENNON PARK											
3F.....	14	10	Husky.....	63.7	—	—	—	—	47	1 Fd.	—
			Parkland.....	62.7	—	—	—	—	46	3 C.W. 6 R.	—
			Trail.....	59.2	—	—	—	—	47	1 Fd.	—
			Vantmore.....	59.3	—	—	—	—	44	2 Fd.	—
			Montcalm.....	62.9	—	—	—	—	46	3 C.W. 6 R.	—

No significant grain yield difference between varieties. Rainfall record incomplete.

LEWIS L. YASKOW, PAS TRAIL											
3F.....	14	11	Husky.....	51.6	76	26	2.5	1.8	45	2 Fd.	—
			Parkland.....	38.0	75	23	2.5	2.0	45	2 Fd.	—
			Trail.....	41.5	73	27	3.3	2.8	45	2 Fd.	—
			Vantmore.....	33.8	76	25	1.3	1.0	43	2 Fd.	—
			Montcalm.....	37.1	76	28	3.0	1.3	45	2 Fd.	—

Necessary difference—9.5 bushels. Rainfall—May to August 7.67 inches.

WHEAT POOL DISTRICT 15

NORMAN M. THOMPSON, BRANCEPETH											
3J.....	15	1	Husky.....	42.7	122	21	3.0	2.0	46	1 Fd.	—
			Parkland.....	31.7	123	20	4.3	2.0	46	1 Fd.	F.
			Trail.....	32.2	122	16	4.0	2.3	43	2 Fd.	—
			Vantmore.....	38.4	123	18	2.3	1.5	44	2 Fd.	—
			Montcalm.....	31.7	119	21	4.0	2.0	45	2 Fd.	—

Necessary difference—5.9 bushels. Rainfall record incomplete.

Wheat Pool District 15—Continued

Cereal Variety Zone	Sub- Dist.	Varieties	Yield bus. per acre	Days seedling to ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
STEWART F. FREDDY, RED DEER HILL										
3J.....	15	3 Husky..... Parkland..... Trail..... Vantmore..... Montcalm.....	58.4 54.3 48.8 47.2 51.5	— — — — —	— — — — —	2.0 3.0 3.0 1.0 2.0	42 45 46 44 43	3 Fd. 2 Fd. 1 Fd. 2 Fd. 2 Fd.	— — — — —	
Necessary difference—4.5 bushels. Rainfall—May to August 5.99 inches.										
MERVIN F. DYCK, ROSTHORN										
3G.....	15	4 Husky..... Parkland..... Trail..... Vantmore..... Montcalm.....	50.2 39.0 36.9 33.5 38.3	— — — — —	26 25 27 26 29	1.3 1.0 1.5 1.0 1.5	2.8 2.8 2.8 1.8 2.3	47 48 47 46 46	1 Fd. 2 C.W. 6 R. 1 Fd. 1 Fd. 3 C.W. 6 R.	— — — — —
Necessary difference—5.3 bushels. Rainfall—May to August 6.31 inches.										
EDWARD A. STRELAU, ORDALE										
4B.....	15	6 Husky..... Parkland..... Trail..... Vantmore..... Montcalm.....	— — — — —	108 104 108 106 108	16 15 17 16 14	2.0 8.3 4.8 4.5 4.8	2.0 2.5 2.0 2.5 2.0	45 45 43 44 45	2 Fd. 2 Fd. 2 Fd. 2 Fd. 2 Fd.	— — — — —
Test damaged by cattle—yields not reliable. Rainfall—May to August 5.08 inches.										
JEAN COUTURE, DEBDEN										
3J.....	15	7 Husky..... Parkland..... Trail..... Vantmore..... Montcalm.....	96.2 78.4 74.5 73.3 73.3	— — — — —	— — — — —	— — — — —	1.5 1.3 1.3 1.3 1.3	45 47 45 44 45	2 Fd. 3 C.W. 6 R. 2 Fd. 2 Fd. 2 Fd.	— — — — —
No significant grain yield difference between varieties. Rainfall—May to August 4.87 inches.										
DAVID N. GOODMAN, CRUTWELL										
3J.....	15	8 Husky..... Parkland..... Trail..... Vantmore..... Montcalm.....	58.6 46.9 45.7 34.7 40.9	87 85 85 85 85	24 27 25 24 27	4.5 3.0 3.0 1.0 4.5	3.0 2.0 3.0 1.0 3.0	48 47 46 44 47	1 Fd. 3 C.W. 6 R. 1 Fd. 2 Fd. 3 C.W. 6 R.	— — — — —
Necessary difference—7.1 bushels. Rainfall record incomplete.										
GORDON JOHNS, HENRIBOURG										
3J.....	15	9 Husky..... Parkland..... Trail..... Vantmore..... Montcalm.....	79.5 63.4 66.4 69.8 59.6	99 99 99 95 99	41 42 40 41 43	3.3 3.5 3.0 2.0 3.5	2.0 2.8 2.5 1.0 2.3	47 48 47 45 45	1 Fd. 2 C.W. 6 R. 1 Fd. 2 Fd. 2 Fd.	— — — — —
Necessary difference—8.1 bushels. Rainfall record incomplete.										
O. BRYCE BELT, SPRUCE HOME										
3J.....	15	9 Husky..... Parkland..... Trail..... Vantmore..... Montcalm.....	16.3 13.7 11.3 12.1 13.3	90 93 91 91 92	22 22 20 20 24	2.3 1.3 1.3 1.0 2.3	1.8 2.0 2.3 1.0 2.0	50 51 49 46 51	1 Fd. 2 C.W. 6 R. 1 Fd. 1 Fd. 2 C.W. 6 R.	— W. — W. —
No significant grain yield difference between varieties. Rainfall—May to August 2.30 inches.										
FRANK NAGY JR., FOXFORD										
3J.....	15	10 Husky..... Parkland..... Trail..... Vantmore..... Montcalm.....	84.2 97.6 74.7 73.4 74.8	— — — — —	— — — — —	— — — — —	— — — — —	46 47 47 44 45	1 Fd. 3 C.W. 6 R. 1 Fd. 2 Fd. 2 Fd.	— — — — —
No significant grain yield difference between varieties. Rainfall—May to August 6.51 inches.										
GERRY D. PARKER, CHOICELAND										
3F.....	15	11 Husky..... Parkland..... Trail..... Vantmore..... Montcalm.....	55.4 49.1 46.2 39.4 46.5	100 91 85 88 100	29 31 30 33 32	2.0 1.8 1.0 1.0 2.0	1.0 1.0 1.3 1.0 1.0	49 51 51 49 49	1 Fd. 1 C.W. 6 R. 1 Fd. 1 Fd. 2 C.W. 6 R.	— — — — —
Necessary difference—3.6 bushels. Rainfall—May to August 9.46 inches.										

WHEAT POOL DISTRICT 16

DENIS B. REGNIER, FIELDING										
3G.....	16	1 Husky..... Parkland..... Trail..... Vantmore..... Montcalm.....	28.3 22.0 19.5 24.9 21.4	— — — — —	15 16 14 16 15	— — — — —	3.0 3.0 3.0 2.0 3.0	43 42 40 40 41	2 Fd. 3 Fd. 3 Fd. 3 Fd. 3 Fd.	— — — — —
No significant grain yield difference between varieties. Rainfall—May to August 7.76 inches.										

Wheat Pool District 16—Continued

Cereal Variety	Sub- Zone	Dist.	Varieties	Days		Plant		Lbs. per measured bushel	Commercial grades	Grading remarks	
				Yield bus. per acre	seeding ripening	in inches	Straw strength				
DONALD J. CALLFAS, SPEERS											
3G.....	16	2	Husky..... Parkland..... Traill..... Vantmore..... Montcalm.....	34.1 35.2 33.1 25.4 28.9	91 92 90 91 94	20 17 18 17 19	3.8 2.8 2.5 1.5 4.5	2.3 2.0 2.3 1.0 2.3	45 47 48 48 49	2 Fd. 3 C.W. 6 R. 1 Fd. 1 Fd. 2 C.W. 6 R.	— — — — —
Necessary difference—3.8 bushels.				Rainfall—May to August 7.21 inches.							
PHILIP BLANCHETTE, JACKFISH LAKE											
3E.....	16	4	Husky..... Parkland..... Traill..... Vantmore..... Montcalm.....	31.5 21.7 19.3 24.2 24.3	— — — — —	— — — — —	— — — — —	— — — — —	48 49 47 46 47	1 Fd. 1 Fd. 1 Fd. 1 Fd. 1 Fd.	— F. — — F.
Necessary difference—4.5 bushels.				Rainfall record incomplete.							
KEN W. WESSON, MAIDSTONE											
3E.....	16	5	Husky..... Parkland..... Traill..... Vantmore..... Montcalm.....	81.4 63.4 59.3 58.4 59.7	101 101 99 97 100	34 37 34 33 39	— — — — —	— — — — —	49 52 50 47 49	1 Fd. 2 C.W. 6 R. 1 Fd. 1 Fd. 2 C.W. 6 R.	— W. — — —
Necessary difference—6.6 bushels.				Rainfall—May to August 9.34 inches.							
JOSEPH R. C. ROTHERY, PARADISE HILL											
3E.....	16	7	Husky..... Parkland..... Traill..... Vantmore..... Montcalm.....	95.8 77.9 71.2 66.4 67.7	109 108 108 109 109	34 36 32 34 36	1.3 1.5 1.0 1.0 1.5	1.3 1.5 1.8 1.0 1.3	47 48 45 45 46	1 Fd. 3 C.W. 6 R. 2 Fd. 2 Fd. 3 C.W. 6 R.	— W. — — —
Necessary difference—10.6 bushels.				Rainfall—May to August 5.85 inches.							
GENEVIEVE E. GAMBLE, MEDSTEAD											
4B.....	16	9	Husky..... Parkland..... Traill..... Vantmore..... Montcalm.....	35.3 32.2 30.2 27.2 35.5	— — — — —	— — — — —	— — — — —	— — — — —	49 47 45 44 46	1 Fd. 3 C.W. 6 R. 2 Fd. 2 Fd. 3 C.W. 6 R.	— — — — —
No significant grain yield difference between varieties.				Rainfall—May to August 5.22 inches.							
GUERNSEY W. WALKER, RANGER											
4B.....	16	10	Husky..... Parkland..... Traill..... Vantmore..... Montcalm.....	43.8 33.8 31.0 32.3 35.2	— — — — —	26 30 23 27 32	1.5 2.0 1.5 1.3 3.5	2.0 2.0 2.0 1.0 2.0	48 46 45 45 46	1 Fd. 3 C.W. 6 R. 2 Fd. 2 Fd. 3 C.W. 6 R.	— — — — —
Necessary difference—4.1 bushels.				Rainfall—May to August 6.77 inches.							
JEANNINE M. FRIESSEN, MEADOW LAKE											
4B.....	16	11	Husky..... Parkland..... Traill..... Vantmore..... Montcalm.....	73.2 66.4 57.9 58.8 56.5	— — — — —	34 35 33 35 37	— — — — —	— — — — —	48 49 47 46 46	1 Fd. 2 C.W. 6 R. 1 Fd. 1 Fd. 3 C.W. 6 R.	— — — — —
Necessary difference—9.3 bushels.				Rainfall—May to August 8.99 inches.							
RICHARD HUTTER, GOODSOIL											
3H.....	16	11	Husky..... Parkland..... Traill..... Vantmore..... Montcalm.....	24.0 23.7 23.5 19.8 23.5	103 100 96 102 103	23 23 18 24 28	1.0 1.0 1.0 1.0 1.0	2.0 3.0 3.0 1.3 2.0	46 48 47 46 48	1 Fd. 2 C.W. 6 R. 2 Fd. 1 Fd. 2 C.W. 6 R.	— — — — —
Necessary difference—2.6 bushels.				Rainfall—May to August 10.40 inches.							
C. DALE MADDEN, MAKWA											
3H.....	16	11	Husky..... Parkland..... Traill..... Vantmore..... Montcalm.....	53.1 59.6 60.7 50.8 58.3	— — — — —	— — — — —	2.0 1.0 2.3 1.8 2.8	1.0 1.3 1.3 1.3 1.5	47 48 47 45 47	1 Fd. 2 C.W. 6 R. 1 Fd. 2 Fd. 2 C.W. 6 R.	— — — — —
No significant grain yield difference between varieties.				Rainfall record incomplete.							

Tests discarded on account of damage by flooding, pests, hail, drought or other damage

3E..... 16 4 Edward J. Brydges, Edam.
3E..... 16 6 Alan R. Davis, Furness.

DURUM WHEAT TESTS

During 1957 a total of 36 durum wheat tests were carried on by the Wheat Pool. These were located only in the southern part of the province in Cereal Variety Zones 1A, 1B, 1C, 1D, 2A, 2B, 2E, 3A. The location of these zones is shown on the map on page 45.

DESCRIPTION OF VARIETIES

NOTE—For a report on the yielding ability of these varieties and the official recommendations see "Summarization According to Cereal Variety Zones" beginning on page 73.

Stewart is a high quality durum variety developed at the North Dakota Agricultural Experiment Station in co-operation with the United States Department of Agriculture. It was licensed in Canada in 1946. It has long, medium-strong straw and is late in maturity. It is resistant to leaf rust, moderately susceptible to loose and covered smut and very susceptible to stem rust.

Pelissier—This variety was brought to United States from Algeria about 1900 and later came to Canada. It has shorter straw than Stewart and is slightly later. It is high yielding and drought resistant. Pelissier is resistant to leaf rust and rootrot, moderately susceptible to loose and covered smut and susceptible to stem rust. It is inferior to Stewart in macaroni quality and cannot be graded higher than Extra No. 4 C.W.

Ramsey is a new durum variety developed at the North Dakota Agricultural Experiment Station and licenced for distribution in Canada in 1957. It has shorter, stronger straw than Stewart but is equal in maturity. It is resistant to stem rust, moderately resistant to leaf rust and rootrot, but susceptible to loose smut and moderately susceptible to covered smut. Ramsey is a high quality variety and is eligible for the top durum grades.

D-21—This is a code number for an unlicensed durum variety developed in North Dakota. It matures slightly earlier than Stewart and has shorter stronger straw. It is moderately resistant to stem rust, but susceptible to leaf rust. Its macaroni quality has not yet been definitely established in Canada, but for the purposes of these tests it was considered to be not eligible for higher grades than Extra No. 4 C.W.

Selkirk was included in these tests to give a direct comparison with the durum varieties. It was produced at the Laboratory of Cereal Breeding, Winnipeg, from a cross involving the varieties McMurachy, Exchange and Redman. It was licensed for sale in Canada in 1953. Selkirk is equal to Thatcher in straw length, strength and maturity. It is less resistant to shattering and more resistant to bleaching. It is resistant to stem rust, to loose and covered smut and moderately resistant to leaf rust.

PERFORMANCE OF VARIETIES

Table No. 54—Average Yields in Bushels Per Acre
Summarized by Cereal Variety Zones

Cereal** Variety Zone	No. of Satisfactory Tests	Stewart	Pelissier	Ramsey	D-21	Selkirk	Necessary Difference* in Bushels
1A.....	4	28.8	27.7	26.8	29.1	26.4	1.81
1C.....	2	25.6	23.8	21.0	26.8	22.5	1.77
1D.....	3	28.0	26.2	27.3	24.2	22.2	2.33
2A.....	3	22.2	23.2	20.4	22.4	20.7	N.S.
2B.....	5	25.7	24.2	22.8	24.0	25.3	1.35
2E.....	2	33.4	28.6	30.9	29.6	28.1	N.S.
3A.....	4	27.3	27.0	27.6	28.9	29.7	2.05

***Necessary Difference:** Since yielding ability of varieties cannot be measured with absolute accuracy, small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone group.

N.S.: No significant grain yield difference between varieties.

** See zone map, page 45.

Table No. 54. Taking the area as a whole, **Stewart** outperformed the other varieties in yield. It placed first in three zones and second in two others. However, in zone 3A it placed fourth of the five varieties. Because of its yielding ability and its high macaroni quality **Stewart** is recommended in all of this area with the exception of those zones in which rust is a hazard. **D-21** placed first in two of these zones, second in two others, third in one and fourth in two. While this variety has some rust resistance, there is some doubt about its macaroni quality. It is not licensed in Canada and is not recommended in any of these zones. **Pelissier** placed third on an average basis, although there was considerable variation from one zone to another. There was little difference between the placing of **Ramsey** and **Selkirk** on an average basis. **Pelissier** is not as high in macaroni quality as **Stewart** and **Ramsey** and is not eligible for grades higher than Extra No. 4 C.W. For this reason it was removed from the official recommendations for 1958. **Ramsey**, because of its rust resistance and high macaroni quality is recommended in the zones where rust is a hazard.

**Table No. 55—Average Number of Days From Seeding to Ripening
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Stewart	Pelissier	Ramsey	D-21	Selkirk
1A.....	99.3	100.3	100.7	99.0	97.0
1C.....	105.3	108.0	106.3	104.3	101.3
1D.....	118.0	117.0	117.0	117.0	113.0
2A.....	96.5	101.5	96.0	96.0	91.0
2B.....	100.0	106.0	100.0	98.7	96.3
2E.....	95.5	100.5	95.5	95.5	89.0
3A.....	95.3	95.3	96.0	95.3	91.7

Table No. 55. **Selkirk** matured before the durum wheats in all these zones. **D-21** placed second in three zones and tied for second in the other four. On an average basis **Stewart** ranked third, with little difference between it and **Ramsey**. **Pelissier** was generally later maturing than the other varieties. It placed fifth in four of the seven zones.

**Table No. 56—Average Height of Plants in Inches
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Stewart	Pelissier	Ramsey	D-21	Selkirk
1A.....	34.5	33.5	31.0	27.0	29.0
1C.....	24.0	25.7	26.0	23.0	21.0
1D.....	37.5	36.0	35.0	33.5	32.5
2A.....	29.3	31.3	28.3	27.7	27.0
2B.....	33.3	32.2	30.7	29.5	27.3
2E.....	31.0	35.0	33.0	33.5	28.5
3A.....	39.0	37.0	37.0	33.5	30.0

Table No. 56. When discussing plant height in relation to wheat and barley elsewhere in this booklet, the tallest varieties have been placed first. However, the long straw produced by most of the durum varieties gives them some tendency to lodge under certain conditions. Therefore, in this section the durum varieties with shorter straw are considered to have an advantage.

Selkirk had the shortest straw of the varieties tested. It placed first in six of the seven zones and second in the remaining one. On an average basis **D-21** placed second. It ranked first in one zone, second in four others and fourth in the remaining two. On an average basis **Ramsey** placed third. There was not much difference between **Pelissier** and **Stewart** on an average basis, but in most zones **Stewart** was slightly taller.

**Table No. 57—Average Straw Strength of Plants
on the Basis 1 (Strong) to 9 (Weak)
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Stewart	Pelissier	Ramsey	D-21	Selkirk
1A.....	2.0	2.0	2.0	2.0	2.0
1C.....	2.1	1.4	1.7	2.2	1.7
1D.....	2.0	2.3	1.8	2.8	3.0
2A.....	2.9	2.3	2.4	2.3	1.0
2B.....	2.2	2.1	1.7	1.7	1.7
2E.....	2.8	2.8	2.8	2.5	1.5
3A.....	3.0	2.0	1.5	2.5	1.0

Table No. 57. On an average basis **Selkirk** showed the greatest straw strength of the varieties tested. However, in Zone 1D it placed fifth of the five varieties. **Ramsey** placed second on an average basis although its placing varied considerably from one zone to another. **Pelissier** and **D-21** placed third and fourth on an average basis. In most of the zones there were only minor differences between them. **Stewart** ranked fifth on an average basis.

Table No. 58—Average Weight Per Measured Bushel
Summarized by Cereal Variety Zones

Cereal Variety Zone	Stewart	Pelissier	Ramsey	D-21	Selkirk
1A.....	65.3	63.0	64.3	63.0	60.8
1C.....	64.7	64.0	64.0	63.7	58.0
1D.....	65.3	63.7	64.3	64.0	61.7
2A.....	65.5	65.0	65.0	64.8	58.5
2B.....	63.7	63.2	63.0	62.0	59.2
2E.....	66.5	63.0	65.5	65.5	62.5
3A.....	63.8	62.5	63.3	62.5	59.0

Table No. 58. **Stewart** outweighed the other varieties tested in all of these zones. **Ramsey** placed second in three zones, tied for second place in three others and placed third in the remaining zone. **Pelissier** and **D-21** placed third and fourth respectively on an average basis. In most zones there were only minor differences between them. As would be expected, **Selkirk** weighed considerably less than the durum varieties.

Table No. 59—Percentage of Commercial Grades by Varieties

Variety	1 C.W. %	2 C.W. %	3 C.W. %	Ex. 4 C.W. %	4 C.W. %	5 C.W. %
Stewart.....	37.1	7.4	22.2	—	33.3	—
Pelissier.....	—	—	—	66.7	22.2	11.1
Ramsey.....	33.3	11.1	18.6	—	25.9	11.1
D-21.....	—	—	—	66.7	29.6	3.7
Selkirk.....	—	—	—	—	—	—
Variety	1 Nor. %	2 Nor. %	3 Nor. %	4 Nor. %	No. 4 Sp. %	No. 5 %
Stewart.....	—	—	—	—	—	—
Pelissier.....	—	—	—	—	—	—
Ramsey.....	—	—	—	—	—	—
D-21.....	—	—	—	—	—	—
Selkirk.....	3.7	7.4	70.4	11.1	3.7	3.7

Table No. 59. It is rather difficult to make a valid comparison of these varieties on the basis of grade. **Stewart** and **Ramsey** are high quality durum varieties which are eligible for the top durum grades. The difference between these two varieties was very slight. **Pelissier** and **D-21** are not eligible for grades higher than Extra No. 4 C.W. There were only minor differences between these two varieties. **Selkirk** is graded according to bread wheat standards.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

Table No. 60—Summarized Results for Zone 1A
(4 satisfactory tests)

	Stewart	Pelissier	Ramsey	D-21	Selkirk
Yield in bushels per acre*.....	28.8	27.7	26.8	29.1	26.4
Days from seeding to ripening.....	99.3	100.3	100.7	99.0	97.0
Height of plants in inches.....	34.5	33.5	31.0	27.0	29.0
Straw strength (basis 1-strong to 9-weak).....	2.0	2.0	2.0	2.0	2.0
Bushel weight in pounds.....	65.3	63.0	64.3	63.0	60.8
Commercial grades in percentage: 1 Nor.....	—	—	—	—	25.0
3 Nor.....	—	—	—	—	75.0
1 C.W.....	75.0	—	75.0	—	—
3 C.W.....	25.0	—	25.0	—	—
Ex. 4 C.W.....	—	100.0	—	100.0	—

*Necessary difference—1.8 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1A

D-21 outyielded the other four varieties tested in this zone in 1957. However, as mentioned in the description of varieties, it is not licensed for commercial distribution in Canada and is not recommended.

Stewart placed second in this zone during each of the last two years. It is well adapted to this area and is officially recommended.

Pelissier placed third in 1957 and first in this zone in 1956. However, because it is lower in quality than Stewart it was dropped from the official recommendations for 1958.

Ramsey placed fourth in yield in this zone in 1957 and third in the previous year. In both of these years it was outyielded by Stewart and since its rust resistance is not required in this zone, it is not recommended.

Selkirk was outyielded by the four durum varieties in 1957.

Cereal Variety Zone 1B

Only one successful durum test was located in this zone in 1957. It was conducted by Richard Holtby of Antelope and can be found in the section "Individual Summarized Results of All Tests—Durum Wheat" on page 79.

Stewart is the only durum variety recommended for Zone 1B.

Table No. 61—Summarized Results for Zone 1C
(2 satisfactory tests)

	Stewart	Pelissier	Ramsey	D-21	Selkirk
Yield in bushels per acre*	25.6	23.8	21.0	26.8	22.5
Days from seeding to ripening	105.3	108.0	106.3	104.3	101.3
Height of plants in inches	24.0	25.7	26.7	23.0	21.0
Straw strength (basis 1-strong to 9-weak)	2.1	1.4	1.7	2.2	1.7
Bushel weight in pounds	64.7	64.0	64.0	63.7	58.0
Commercial grades in percentage:					
2 Nor.	—	—	—	—	33.3
3 Nor.	—	—	—	—	33.3
No. 4 Sp.	—	—	—	—	33.4
1 C.W.	33.3	—	33.3	—	—
2 C.W.	66.7	—	66.7	—	—
Ex. 4 C.W.	—	100.0	—	100.0	—

*Necessary difference—1.8 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1C

D-21 outyielded the other four varieties tested in this zone in 1957. However, as mentioned above, it is not licensed for commercial distribution in Canada and is not recommended.

Stewart ranked second in 1957 and third in 1956. It is high in macaroni quality and is recommended for the zone.

Pelissier placed third in yield in 1957. It placed first in the previous year, but because it is lower in quality than Stewart it is not recommended.

Selkirk placed fourth in yield in this zone in 1957. It is not recommended.

Ramsey was outyielded by the other four varieties tested in this zone in 1957. During the previous year, it placed second. Its rust resistance is not required in this zone and it is not recommended.

Table No. 62—Summarized Results for Zone 1D
(3 satisfactory tests)

	Stewart	Pelissier	Ramsey	D-21	Selkirk
Yield in bushels per acre*	28.0	26.2	27.3	24.2	22.2
Days from seeding to ripening	118.0	117.0	117.0	117.0	113.0
Height of plants in inches	37.5	36.0	35.0	33.5	32.5
Straw strength (basis 1-strong to 9-weak)	2.0	2.3	1.8	2.8	3.0
Bushel weight in pounds	65.3	63.7	64.3	64.0	61.7
Commercial grades in percentage:					
3 Nor.	—	—	—	—	33.3
4 Nor.	—	—	—	—	33.3
No. 5	—	—	—	—	33.4
3 C.W.	33.3	—	—	—	—
4 C.W.	66.7	66.7	66.7	100.0	—
5 C.W.	—	33.3	33.3	—	—

*Necessary difference—2.3 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1D

Stewart outyielded the other four varieties tested in this zone in 1957. It placed second in the previous year and is officially recommended.

Ramsey placed second in 1957 and third in 1956. In both of these years it was outyielded by Stewart. Since its rust resistance is not particularly important, in this zone, it is not recommended.

Pelissier placed third in yield in 1957. It placed first in this zone in 1956, but because it is lower in macaroni quality than Stewart, it was dropped from the official recommendations for 1958.

D-21 placed fourth in yield in each of the last two years. It is not licensed for commercial distribution in Canada and is not recommended.

Selkirk was outyielded by the four durum varieties tested in 1957.

GRAPH SHOWING DURUM WHEAT YIELDS BY CEREAL VARIETY ZONES

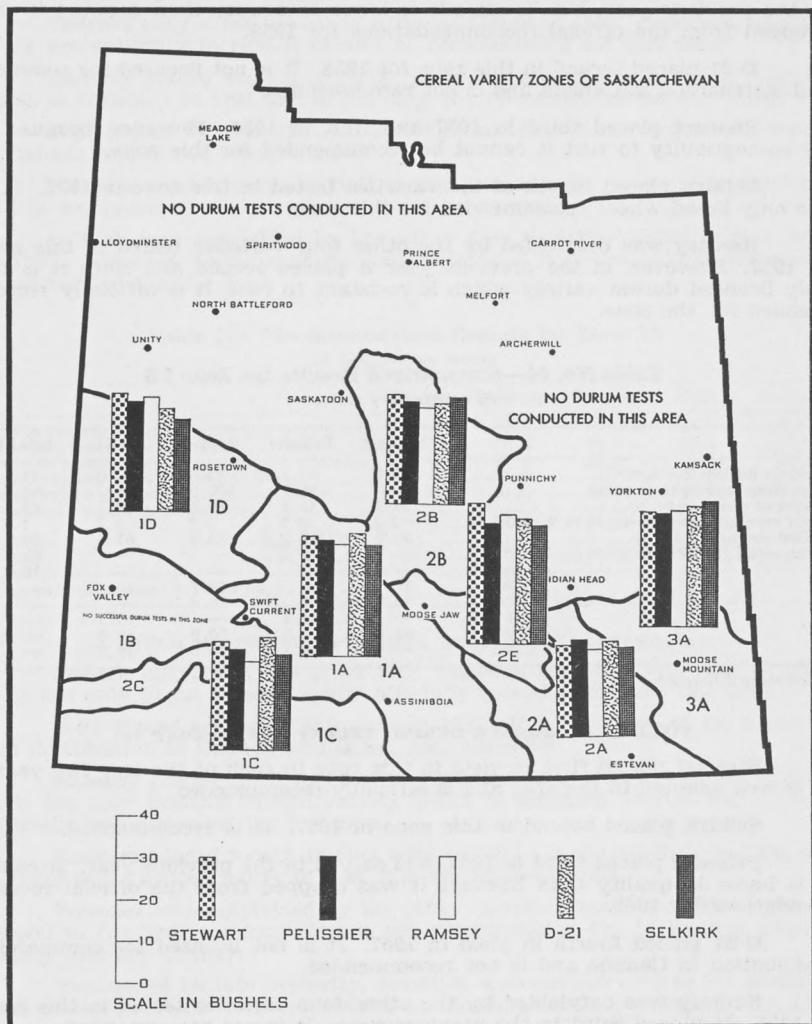


Table No. 63—Summarized Results for Zone 2A
(3 satisfactory tests)

	Stewart	Pelissier	Ramsey	D-21	Selkirk
Yield in bushels per acre*	22.2	23.2	20.4	22.4	20.7
Days from seeding to ripening	96.5	101.5	96.0	96.0	91.0
Height of plants in inches	29.3	31.3	28.3	27.7	27.0
Straw strength (basis 1-strong to 9-weak)	2.9	2.3	2.4	2.3	1.0
Bushel weight in pounds	65.5	65.0	65.0	64.8	58.5
Commercial grades in percentage:					
3 Nor.	—	—	—	—	100.0
1 C.W.	75.0	—	50.0	—	—
2 C.W.	—	—	25.0	—	—
3 C.W.	25.0	—	25.0	—	—
Ex. 4 C.W.	—	100.0	—	100.0	—

*No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2A

Pelissier outyielded the other varieties tested in 1957. It placed third in the previous year, but because it is lower in quality than Stewart it was dropped from the official recommendations for 1958.

D-21 placed second in this zone for 1958. It is not licensed for commercial distribution in Canada and is not recommended.

Stewart placed third in 1957 and first in 1956. However, because of its susceptibility to rust it cannot be recommended for this zone.

Selkirk placed fourth of the varieties tested in this zone in 1957. It is the only bread wheat recommended for this zone.

Ramsey was outyielded by the other four varieties tested in this zone in 1957. However, in the previous year it placed second and since it is the only licensed durum variety which is resistant to rust, it is officially recommended for the zone.

Table No. 64—Summarized Results for Zone 2B
(5 satisfactory tests)

	Stewart	Pelissier	Ramsey	D-21	Selkirk
Yield in bushels per acre*	25.7	24.2	22.8	24.0	25.3
Days from seeding to ripening	100.0	106.0	100.0	98.7	96.3
Height of plants in inches	33.3	32.2	30.7	29.5	27.3
Straw strength (basis 1-strong to 9-weak)	2.2	2.1	1.7	1.7	1.7
Bushel weight in pounds	63.7	63.2	63.0	62.0	59.2
Commercial grades in percentage:					
3 Nor.	—	—	—	—	83.3
4 Nor.	—	—	—	—	16.7
1 C.W.	16.7	—	16.7	—	—
3 C.W.	16.7	—	16.7	—	—
Ex. 4 C.W.	—	33.3	—	33.3	—
4 C.W.	66.6	50.0	50.0	50.0	—
5 C.W.	—	16.7	16.6	16.7	—

*Necessary difference—1.4 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2B

Stewart placed first in yield in this zone in each of the last two years. It is well adapted to the area and is officially recommended.

Selkirk placed second in this zone in 1957. It is recommended.

Pelissier placed third in 1957, and second in the previous year. Because it is lower in quality than Stewart it was dropped from the official recommendations for 1958.

D-21 placed fourth in yield in 1957. It is not licensed for commercial distribution in Canada and is not recommended.

Ramsey was outyielded by the other four varieties tested in this zone in 1957. It placed third in the previous year. It is not recommended.

Table No. 65—Summarized Results for Zone 2E
(2 satisfactory tests)

	Stewart	Pelissier	Ramsey	D-21	Selkirk
Yield in bushels per acre*	33.4	28.6	30.9	29.6	28.1
Days from seeding to ripening	95.5	100.5	95.5	95.5	89.0
Height of plants in inches	31.0	35.0	33.0	33.5	28.5
Straw strength (basis 1-strong to 9-weak)	2.8	2.8	2.8	2.5	1.5
Bushel weight in pounds	66.5	63.0	65.5	65.5	62.5
Commercial grades in percentage:					
3 Nor.	—	—	—	—	50.0
4 Nor.	—	—	—	—	50.0
1 C.W.	50.0	—	50.0	—	—
Ex. 4 C.W.	—	50.0	—	50.0	—
4 C.W.	50.0	—	—	50.0	—
5 C.W.	—	50.0	50.0	—	—

*No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2E

Only one year's data is available for durum tests in this zone.

Stewart outyielded the other varieties tested in 1957. However, because of its susceptibility to rust it cannot be recommended for this zone.

Ramsey placed second in 1957. It is the only licensed durum variety which is resistant to rust and is the only one recommended for this zone.

D-21 placed third in 1957. It is not licensed for commercial distribution in Canada and is not recommended.

Pelissier placed fourth in yield in this zone in 1957. It is rust susceptible and is not recommended.

Selkirk was outyielded by the other four varieties tested in this zone in 1957. However, because of its rust resistance it is the only bread wheat recommended for this zone.

Table No. 66—Summarized Results for Zone 3A
(4 satisfactory tests)

	Stewart	Pelissier	Ramsey	D-21	Selkirk
Yield in bushels per acre*	27.3	27.0	27.6	28.9	29.7
Days from seeding to ripening	95.3	95.3	96.0	95.3	91.7
Height of plants in inches	39.0	37.0	37.0	33.5	30.0
Straw strength (basis 1-strong to 9-weak)	3.0	2.0	1.5	2.5	1.0
Bushel weight in pounds	63.8	62.5	63.3	62.5	59.0
Commercial grades in percentage:					
3 Nor.	—	—	—	—	100.0
3 C.W.	50.0	—	50.0	—	—
Ex. 4 C.W.	—	75.0	—	75.0	—
4 C.W.	50.0	25.0	50.0	25.0	—

*Necessary difference—2.1 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

Selkirk outyielded the other four varieties tested in this zone in 1957. It is the only bread wheat variety officially recommended for this zone.

D-21 placed second in this zone in 1957. It is not licensed for commercial distribution in Canada and is not recommended.

Ramsey placed third in yield in 1957 and fourth in the previous year. It is the only licensed durum variety which is resistant to rust and so it is officially recommended for the zone.

Stewart placed fourth in this zone in 1957. It placed first in 1956, but because of its susceptibility to rust it is not recommended.

Pelissier was outyielded by the other varieties tested in 1957. It placed second in the previous year, but is not recommended due to its rust susceptibility and low quality.

Because of its late maturity, durum is a hazardous crop in the northern part of the province. For this reason no durum tests were conducted in that area and for the same reason no official recommendations are made.

Table No. 67

Individual Summarized Results of All Tests—Durum Wheat

The results of all successful durum tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to Be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Grading Remarks" see page 7.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
K. DWAYNE BARBER, OXBOW										
3A	1	3	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	28.8 27.8 30.3 29.7 26.1	87 90 92 89 86	38 37 35 31 28	3.0 2.0 1.0 3.0 1.0	64 63 64 62 58	3 C.W. Ex. 4 C.W. 3 C.W. Ex. 4 C.W. 3 N.	I. — I. — W.
IRVIN H. BLACKBURN, ESTEVAN										
2A	1	5	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	23.1 21.4 20.2 21.9 19.0	— — — — —	— — — — —	— — — — —	67 66 66 65 57	1 C.W. Ex. 4 C.W. 1 C.W. Ex. 4 C.W. 3 N.	— — — — —

No significant grain yield difference between varieties. Rainfall record incomplete.

LARRY SKJERDAL, RATCLIFFE										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
2A	1	7	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	14.8 22.0 16.1 15.7 15.5	— — — — —	25 29 25 24 23	3.0 3.0 3.0 3.0 1.0	64 64 63 64 60	3 C.W. Ex. 4 C.W. 3 C.W. Ex. 4 C.W. 3 N.	I., E. — I., E. — I.

No significant grain yield difference between varieties. Rainfall—May to August 5.76 inches.

NEILL I. ARMITAGE, WAUCHOPE										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
3A	1	10	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	19.1 19.3 21.8 22.5 24.7	— — — — —	— — — — —	— — — — —	63 63 62 63 60	4 C.W. Ex. 4 C.W. 4 C.W. Ex. 4 C.W. 3 N.	I. — I. — I.

Necessary difference—2.5 bushels. Rainfall record incomplete.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3A	1	2	Ali Vanderwaal, Fertile.
3A	1	4	Robert A. Luterbach, Browning.

WHEAT POOL DISTRICT 2

WAYNE L. HUNSTAD, LAKE ALMA										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
2A	2	1	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	17.0 18.9 15.8 17.3 18.7	96 101 95 95 94	29 29 28 26 26	4.0 2.0 2.8 2.5 1.0	65 65 65 64 58	1 C.W. Ex. 4 C.W. 2 C.W. Ex. 4 C.W. 3 N.	— — I. — I.

No significant grain yield difference between varieties. Rainfall—May to August 7.65 inches.

ROMAN T. OKRAINCEE, FIR MOUNTAIN										
Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
1C	2	6	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	4.9 5.0 6.5 3.9 6.3	102 101 103 99 97	23 22 22 20 18	1.5 1.3 2.0 1.5 2.0	61 64 61 60 54	2 C.W. Ex. 4 C.W. 2 C.W. Ex. 4 C.W. 4 Sp.	— — — — —

Test damaged—yields not included in zone summary. Rainfall—May to August 6.17 inches.

Wheat Pool District 2—Continued

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
BRADLEY PINGERT, KHEDIVE										
2A	2	10	Stewart	26.5	97	34	1.8	66	1 C.W.	—
			Pelissier	29.3	102	36	2.0	65	Ex. 4 C.W.	—
			Ramsey	25.1	97	33	1.5	66	1 C.W.	—
			D-21	28.0	97	32	1.5	66	Ex. 4 C.W.	—
			Selkirk	24.4	88	32	1.0	59	3 N.	I.

No significant grain yield difference between varieties. Rainfall—May to August 4.89 inches.

WHEAT POOL DISTRICT 3

WALTER L. WENAAS, ROBSART										
1C	3	5	Stewart	15.7	125	19	2.8	67	1 C.W.	—
			Pelissier	14.0	134	19	1.8	65	Ex. 4 C.W.	—
			Ramsey	14.2	127	25	2.0	66	1 C.W.	—
			D-21	13.7	125	19	2.0	66	Ex. 4 C.W.	—
			Selkirk	15.8	123	19	2.0	59	2 N.	—

No significant grain yield difference between varieties. Rainfall record incomplete.

LARRY K. MALONE, SHAUNAVON

1C	3	8	Stewart	35.4	89	30	2.0	66	2 C.W.	I.
			Pelissier	33.6	89	36	1.0	63	Ex. 4 C.W.	—
			Ramsey	27.7	89	33	1.0	65	2 C.W.	I.
			D-21	39.8	89	30	3.0	65	Ex. 4 C.W.	—
			Selkirk	29.1	84	26	1.0	61	3 N.	I.

Necessary difference—3.4 bushels. Rainfall record incomplete.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

1C 3 4 Clarence E. Murray, Divide.

WHEAT POOL DISTRICT 4

RICHARD T. HOLTBY, ANTELOPE										
1B	4	4	Stewart	34.1	—	—	—	67	1 C.W.	—
			Pelissier	28.5	—	—	—	66	Ex. 4 C.W.	—
			Ramsey	30.0	—	—	—	67	1 C.W.	—
			D-21	27.3	—	—	—	67	Ex. 4 C.W.	—
			Selkirk	27.0	—	—	—	63	2 N.	I.

No significant grain yield difference between varieties. Rainfall record incomplete.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

1B 4 7 Margaret Rose Kuntz, Richmond.

1B 4 10 Alan R. Clark, Cabri.

WHEAT POOL DISTRICT 5

ETHEL M. TALBOT, ETTINGTON										
1A	5	1	Stewart	23.5	95	34	2.0	64	1 C.W.	—
			Pelissier	25.5	97	36	2.0	63	Ex. 4 C.W.	—
			Ramsey	23.9	96	35	2.0	64	1 C.W.	—
			D-21	27.3	94	33	2.0	63	Ex. 4 C.W.	—
			Selkirk	26.6	90	32	1.0	59	3 N.	I.

Necessary difference—1.9 bushels. Rainfall—May to August 2.88 inches.

DALE GLENDENNING, OLD WIVES

1A	5	6	Stewart	40.0	95	36	2.0	67	1 C.W.	—
			Pelissier	40.5	99	35	3.0	65	Ex. 4 C.W.	—
			Ramsey	36.3	97	34	2.0	66	1 C.W.	—
			D-21	39.8	96	25	3.0	67	Ex. 4 C.W.	—
			Selkirk	32.4	98	36	2.0	63	3 N.	I.

Necessary difference—5.0 bushels. Rainfall—May to August 4.78 inches.

LORENCE I. PETERSON, PARKBEG

1A	5	7	Stewart	25.0	108	34	2.0	67	1 C.W.	—
			Pelissier	24.7	105	31	1.0	64	Ex. 4 C.W.	—
			Ramsey	23.2	109	26	2.0	65	1 C.W.	—
			D-21	23.8	107	25	1.0	61	Ex. 4 C.W.	—
			Selkirk	22.6	103	24	1.0	63	1 N.	—

No significant grain yield difference between varieties. Rainfall May to August 6.24 inches.

WHEAT POOL DISTRICT 6

P. DAVID HELSTROM, GRAY										
2E	6	2	Stewart	39.7	105	40	3.5	67	4 C.W.	F.
			Pelissier	35.4	116	46	3.5	63	5 C.W.	F.
			Ramsey	34.8	106	44	3.5	65	5 C.W.	F.
			D-21	38.1	105	44	3.0	66	4 C.W.	F.
			Selkirk	29.3	95	35	2.0	63	4 N.	G., F.

Necessary difference—4.1 bushels. Rainfall—May to August 6.18 inches.

Wheat Pool District 6—Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
RONALD H. SANDERSON, AVONLEA										
2E.....	6	4	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	27.0 21.7 27.0 21.0 26.8	86 85 85 86 83	22 24 22 23 22	2.0 2.0 2.0 2.0 1.0	66 63 66 65 62	1 C.W. Ex. 4 C.W. 1 C.W. Ex. 4 C.W. 3 N.	— — — — G., I.

No significant grain yield difference between varieties. Rainfall—May to August 4.09 inches.

WHEAT POOL DISTRICT 7

E. ALVIN FISK, KELSO										
3A.....	7	1	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	21.3 22.8 20.0 19.8 25.9	97 92 94 97 94	— — — — —	— — — — —	63 61 64 63 59	4 C.W. 4 C.W. 4 C.W. 4 C.W. 3 N.	F. F. F. F. I.

No significant grain yield difference between varieties. Rainfall—May to August 7.23 inches.

MILTON SHOEMAKER, KENNEDY

MILTON SHOEMAKER, KENNEDY										
3A.....	7	3	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	— — — 32.6 31.8	— — — 101 96	— — — 38 32	— — — 2.0 1.0	— — — 64 60	— — — Ex. 4 C.W. 3 N.	— — — G., I.

Stewart, Pelissier and Ramsey destroyed by hail—not included in zone summary. Rainfall—May to August 9.80 inches.

A. ROY STANLEY, BARING

A. ROY STANLEY, BARING										
3A.....	7	6	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	40.0 37.9 38.2 43.5 41.9	102 104 102 100 95	40 37 39 36 32	3.0 2.0 2.0 2.0 1.0	65 63 63 62 59	3 C.W. Ex. 4 C.W. 3 C.W. Ex. 4 C.W. 3 N.	I. — I. — I.

Necessary difference—3.7 bushels. Rainfall—May to August 7.14 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3A.....	7	4	Vernon W. N. Pusch, Windthorst.
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WHEAT POOL DISTRICT 9

RONALD K. MCKAY, GOVAN										
2B.....	9	5	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	27.6 26.8 23.3 23.2 28.0	— — — — —	32 31 29 26 24	3.0 3.0 2.0 2.0 1.8	64 65 63 61 58	4 C.W. 4 C.W. 5 C.W. 5 C.W. 3 N.	F. F. F. F. W.

Necessary difference—2.5 bushels. Rainfall record incomplete.

T. ROBERT HALSTEAD, NOKOMIS

T. ROBERT HALSTEAD, NOKOMIS										
2B.....	9	6	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	27.0 27.1 26.6 30.4 35.1	105 110 105 99 96	37 37 34 34 29	2.0 1.3 1.0 1.0 1.0	62 62 62 62 61	4 C.W. 4 C.W. 4 C.W. 4 C.W. 3 N.	F. F. F. F. I.

Necessary difference—3.8 bushels. Rainfall—May to August 6.11 inches.

WHEAT POOL DISTRICT 10

ALLAN J. JONES, DILKE										
2B.....	10	1	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	21.6 21.8 22.1 19.3 14.8	96 97 96 98 91	28 27 26 27 23	3.0 3.0 2.0 2.0 2.0	63 60 62 61 59	4 C.W. 4 C.W. 4 C.W. 4 C.W. 4 N.	— — — — —

Test damaged by hail—yields not included in zone summary. Rainfall—May to August 4.34 inches.

ROBERT C. BAXTER, DEMAINE

1A.....	10	3	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	26.8 20.1 23.8 25.6 23.8	— — — — —	34 32 29 25 24	2.0 2.0 2.0 2.0 4.0	63 60 62 61 58	3 C.W. Ex. 4 C.W. 3 C.W. Ex. 4 C.W. 3 N.	W. — W. W. W.
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No significant grain yield difference between varieties. Rainfall—May to August 5.93 inches.

Wheat Pool District 10—Continued

Cereal Variety Zone	Dist.	Sub- Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
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WILLIAM H. WOLFF, LIBERTY

2B.....	10	8	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	24.9 24.5 21.6 21.2 19.5	99 111 99 99 102	36 34 31 30 28	2.0 2.0 2.0 2.0 2.0	64 65 64 61 59	3 C.W. Ex. 4 C.W. 3 C.W. Ex. 4 C.W. 3 N.	I. — I. — W.
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Necessary difference—1.5 bushels. Rainfall—May to August 5.70 inches.

FRANK J. SAGEN, FARRERDALE

2B.....	10	9	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	30.3 27.6 26.8 27.9 26.2	— — — — —	40 38 37 34 32	1.0 1.0 1.0 1.0 1.5	66 63 64 64 58	1 C.W. Ex. 4 C.W. 1 C.W. Ex. 4 C.W. 3 N.	— — — — I.
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No significant grain yield difference between varieties. Rainfall record incomplete.

WHEAT POOL DISTRICT 11

R. JAMES HANTELMAN, TYNER

1D.....	11	1	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	19.8 16.5 17.4 13.2 13.0	— — — — —	— — — — —	— — — — —	66 65 65 64 61	3 C.W. 4 C.W. 4 C.W. 4 C.W. 3 N.	I. F. F. F. I.
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Necessary difference—4.1 bushels. Rainfall—May to August 3.44 inches.

KEVIN G. GALVIN, FORGAN

1D.....	11	2	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	42.3 37.5 45.3 39.4 37.8	118 117 115 115 110	44 40 39 38 36	2.0 2.5 1.5 4.5 3.0	63 60 63 62 60	4 C.W. 5 C.W. 4 C.W. 4 C.W. No. 5	F. F. F. F. G., F.
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Necessary difference—5.5 bushels. Rainfall—May to August 8.49 inches.

JAMES C. HAWTIN, ALSASK

1D.....	11	4	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	22.0 24.5 19.3 20.1 15.9	118 117 119 119 116	31 32 31 29 29	2.0 2.0 2.0 1.0 3.0	67 66 65 66 64	4 C.W. 4 C.W. 5 C.W. 4 C.W. 4 N.	F. F. F. F. I., F.
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Necessary difference—3.1 bushels. Rainfall record incomplete.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

1D.....	11	10	James R. Benoit, Court.
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WHEAT POOL DISTRICT 13

LIONEL S. MITCHELL, BLUCHER

2B.....	13	4	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	18.9 14.9 15.6 17.4 17.8	— — — — —	27 26 27 26 28	2.0 2.0 2.2 2.2 2.0	63 62 63 63 60	4 C.W. 5 C.W. 4 C.W. 4 C.W. 3 N.	F. F. F. F. F.
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No significant grain yield difference between varieties. Rainfall—May to August 9.00 inches.

ROBERT LOWE, PETERSON

2B.....	13	9	Stewart..... Pelissier..... Ramsey..... D-21..... Selkirk.....	32.5 33.0 28.2 27.2 29.9	89 94 87 88 91	25 27 24 24 23	3.0 1.0 2.0 2.0 2.0	66 66 66 65 62	2 C.W. Ex. 4 C.W. 2 C.W. Ex. 4 C.W. 3 N.	I. — I. — I.
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Necessary difference—2.9 bushels. Rainfall—May to August 5.28 inches.

Conclusions

Probably the most outstanding characteristic of the 1957 growing season was the lack of rainfall over a large part of the province. The reserve of sub-soil moisture in most of the province was limited and little rain fell in the spring. In many areas insufficient moisture resulted in delayed and uneven germination. During June the situation improved somewhat but the rainfall that occurred was uneven, resulting in a great difference in the condition of crops within a short distance. This is evident in the variation in yields of individual tests. Severe hail damage occurred throughout many parts of the province during the season and a greater than usual number of tests were destroyed.

No promising new bread wheat varieties have been produced for Saskatchewan for several years and as a result it was necessary to include in these tests a number of the varieties which have been tested for several years previously and as well, to include in the northern and eastern area, two durum varieties which under normal circumstances would not be expected to mature in this area. In 1957 Thatcher added to its long-standing record of good performance in the province. It showed wide adaptability and can be highly recommended except in those areas where rust is a hazard. Selkirk showed up well in the eastern and northern zones, but it was outyielded by Thatcher in the drier prairie area. Lake is well adapted to a number of cereal variety zones in the north-west and northern part of the province. Rescue and Chinook, while generally lower in yield than Thatcher, are useful in the area where sawfly damage can be expected. Stewart and Ramsey, which were included in the eastern, northeastern and northern zones to fill out the test, yielded reasonably well in 1957, but could not be expected to mature in the northern part of the province in most years.

In the barley tests conducted in 1957, Husky demonstrated its adaptability once more by outyielding the other varieties tested in nearly every zone in the province. Vantage was slightly lower in yield, but showed wide adaptability as well. Parkland was generally lower in yield than some of the feed varieties in the prairie area of the province, but in the eastern and north-eastern portion it yielded well and because of its rust resistance and greater straw strength than Montcalm, it will probably replace that variety in a large area. Trail, which was tested for the first time by the Wheat Pool in 1957, appears to be best adapted to the eastern and north-eastern part of the province. Vantmore yielded well in a few zones in the south-east, but does not appear to be widely adapted.

Durum wheat tests were confined to the southern part of the province and in this area Stewart yielded well. It is a useful variety in this area with the exception of those zones which are subject to rust. Pelissier also yielded well in most of the zones in which it was tested. However, with a large supply of durum wheat available at the present time the low quality of this variety may make it difficult to market. It should be noted that for this reason it was removed from the official recommendations of the Saskatchewan Advisory Council on Grain Crops for 1958. Ramsey was lower in yield than Stewart and Pelissier in most of these zones, but because of its resistance to rust it should be a useful variety in the rust area. D-21 yielded quite well in a number of these zones, but because of its doubtful quality, its future in Canada is not promising. Selkirk in these tests provided an interesting comparison with the durum varieties. It was outyielded in most of this area, but in two of the zones it compared favorably in yield.

It is hoped that these tests, in addition to providing yield information from all parts of the province, have stimulated the interest of the young people who supervised them, and have been of interest to producers in the communities where the tests were located.

ACKNOWLEDGMENTS

The Saskatchewan Wheat Pool wishes to acknowledge the help received from a number of agencies and individuals who contributed in various ways to make this testing project a success. Special mention should be made of the Field Husbandry Department of the University of Saskatchewan. During 1957 Dr. W. J. White, head of the Department and Drs. E. N. Larter and D. R. Knott provided valuable help and advice in planning and carrying out the testing program.

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The Experimental Farm, Brandon, Manitoba.
The Experimental Farm, Indian Head, Saskatchewan.
The Experimental Farm, Melfort, Saskatchewan.
The North Dakota Experimental Station, Langdon Substation, Langdon, North Dakota.
The Experimental Farm, Regina, Saskatchewan.
The Experimental Farm, Swift Current, Saskatchewan.

In addition, the Wheat Pool gratefully acknowledges the assistance of the variety test supervisors who, through their interest and enthusiasm, contributed in no small measure to the success of the project.

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